

COUNTY BOROUGH OF SALFORD.

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# ANNUAL REPORT

OF THE

## MEDICAL OFFICER OF HEALTH

FOR THE YEAR

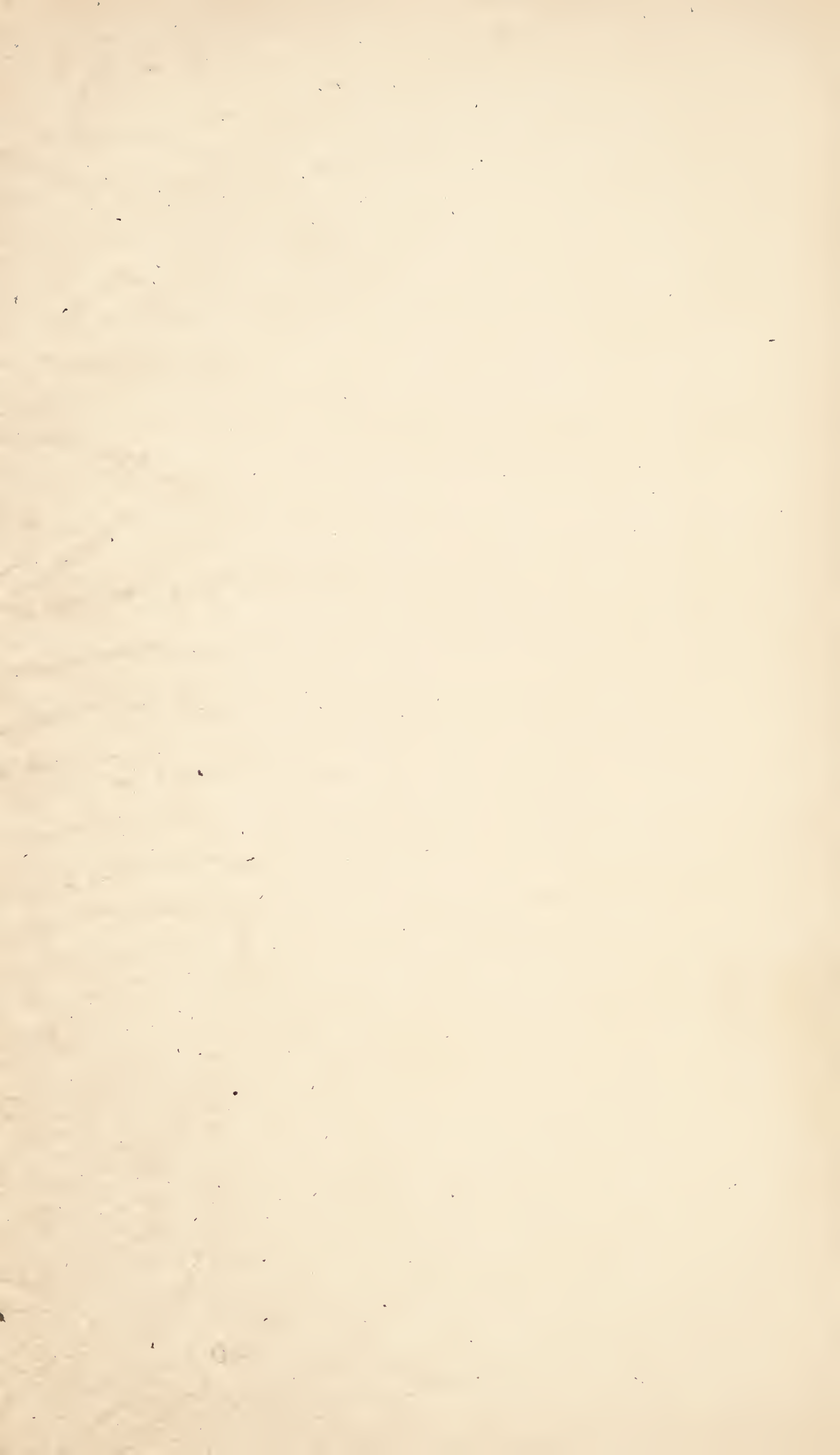
1909,

BY

C. H. TATTERSALL,

MEDICAL OFFICER OF HEALTH.

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SALFORD :  
W. F. JACKSON & SONS, THE MANOR PRESS,  
1910.



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## MEMBERS OF THE HEALTH COMMITTEE.

1909-1910.

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Mr. Alderman HUDDART, J.P., *Chairman*.

Mr. Alderman DESQUESNES, *Deputy-Chairman*.

|                            |                              |
|----------------------------|------------------------------|
| Mr. Alderman SNAPE, J.P.   | Mr. Councillor JACKSON, J.P. |
| ( <i>Mayor</i> ).          | „ „ J. JONES.                |
| „ Alderman JENKINS, J.P.   | „ „ PICKERING.               |
| ( <i>Deputy-Mayor</i> ).   | „ „ PINDER, J.P.             |
| Mr. Alderman HULTON.       | „ „ SHAND.                   |
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| „ Councillor BARRETT, J.P. | „ „ WHEATCROFT.              |
| „ „ HAILWOOD.              | „ „ WINDSOR, J.P.            |



## TO THE HEALTH COMMITTEE.

GENTLEMEN,

I beg to submit my Twelfth Annual Report on the work of the Department under your control.

The Report is divided into seven sections to facilitate reference to the various branches of the work.

One of the most interesting features in the Vital Statistics for the year is the drop, which is a steady continuing one, both in the Marriage and Birth Rates, which are the lowest on record for the Borough, the Marriage Rate being 14.8 and the Birth Rate 28.0 per 1,000.

The Death Rate remains low in comparison with previous years, viz., 18 per 1,000.

Of Special Diseases, Cancer is the only one which appears to be steadily increasing, the Death Rate being 8 per 10,000, which is double the average rate for the five years 1878 to 1882, which was 4 per 10,000.

There has been a slight reduction in the Death Rates from Zymotic Diseases and Phthisis.

In Section II., which deals with Infectious Diseases, details of the work done in connection with the prevention of Phthisis will be found. Since the Spring of 1908 to the end of 1909, 27 cases sent by the Corporation have been discharged from Delamere, of these 14 are at present in a satisfactory condition, and some of these were discharged in the middle of 1908. Five cases are failing in health, five are dead, and three have removed and been lost sight of.

Scarlet Fever has been very prevalent during the year, 1,577 cases, the highest number on record, having been reported. The case mortality has fortunately been low, viz., 5·2 per cent. of those attacked. Diphtheria has been less prevalent than in 1908, and there have been no cases of Small Pox or Typhus Fever.

Full details of the work done in connection with the Inspection of Schools and School Children are given in Section III.

Section IV. deals with the work of the Veterinary Inspector's Department, and contains an account of an investigation into the Tuberculous infection of cream.

Section V. deals with the work of the Lady Inspectors' Department ; Section VI. with that of the General Inspection ; and Section VII. is devoted to an account of a special investigation into Infant Mortality with reference to the employment of married women, undertaken at the instance of the Home Office.

I have the honour to be, Gentlemen,

Your obedient Servant,

C. H. TATTERSALL,

MEDICAL OFFICER OF HEALTH.

Town Hall,

Salford,

May 1st, 1910.

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SECTION I.

MORTALITY STATISTICS





## SECTION I.

# MORTALITY STATISTICS

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### POPULATION.

The Registrar-General estimates that the population of the County Borough of Salford was **241,950** in the middle of 1909, and this number—which is ascertained by assuming that the population of the Borough continues to increase at the same rate as in the decennium 1891 to 1901—is made the basis on which the various Birth, Death, and Sickness rates mentioned in this report are calculated.

The male population is estimated to be **116,946**, and the female **125,004**.

The age distribution of the population is—

|                               |         |
|-------------------------------|---------|
| Under five years of age ..... | 29,120  |
| From 5 to 15 .....            | 51,180  |
| „ 15 to 25 .....              | 49,621  |
| „ 25 to 65 .....              | 104,988 |
| Over 65 .....                 | 7,041   |

The natural increase of the population for the year, that is, the excess of births over deaths is 2,409, as compared with the estimated increase of 2,656.

### BIRTHS.

There were 6 778 births registered in the Borough

in 1909, 3,491 being males and 3,287 females, giving a birth rate of 28·0 per thousand of the population. In 1908 the births numbered 7,264, there being then a decrease of 486; in 1908, however, there were 53 weeks returns included, whereas in 1909 there were only 52 weeks returns. The actual decrease therefore is approximately 356 for the year, giving a reduction in the Birth Rate of 1·5 per thousand. The birth-rate for the 76 large towns averaged 25·7, and for the whole of England and Wales, 25·6, as compared with 28·0 in Salford. There were 244 births registered as illegitimate, or 3·6 per cent. of the total births, 69 of these illegitimate births were registered in the first quarter, 54 in the second, 59 in the third, and 62 in the fourth.

**Still Births.**—I have ascertained from the Registrars of the Cemeteries and the Sextons of other burial grounds, that the bodies of 261 still-born children have been buried. The Midwives notified the occurrence of 139 stillbirths. The “ Notification of Births Act ” has not yet been adopted by the Borough Council, largely owing to the feeling of opposition shown by the Medical Practitioners, who object to being made responsible for notification and yet receive no payment.

### DEATHS.

The total number of deaths registered in the Borough during 1909 was 4,369, of which number 2,260 were males and 2,109 females, giving a **death rate of 18·0** per thousand of the population. There were 1,288 deaths in the first quarter of the year, 1,120 in the second, 896 in the third, and 1,065 in the fourth. The accompanying



BIRTHS, DEATHS FROM ALL CAUSES, AND FROM ZYMOTIC  
DISEASES, IN EACH WEEK DURING 1909.

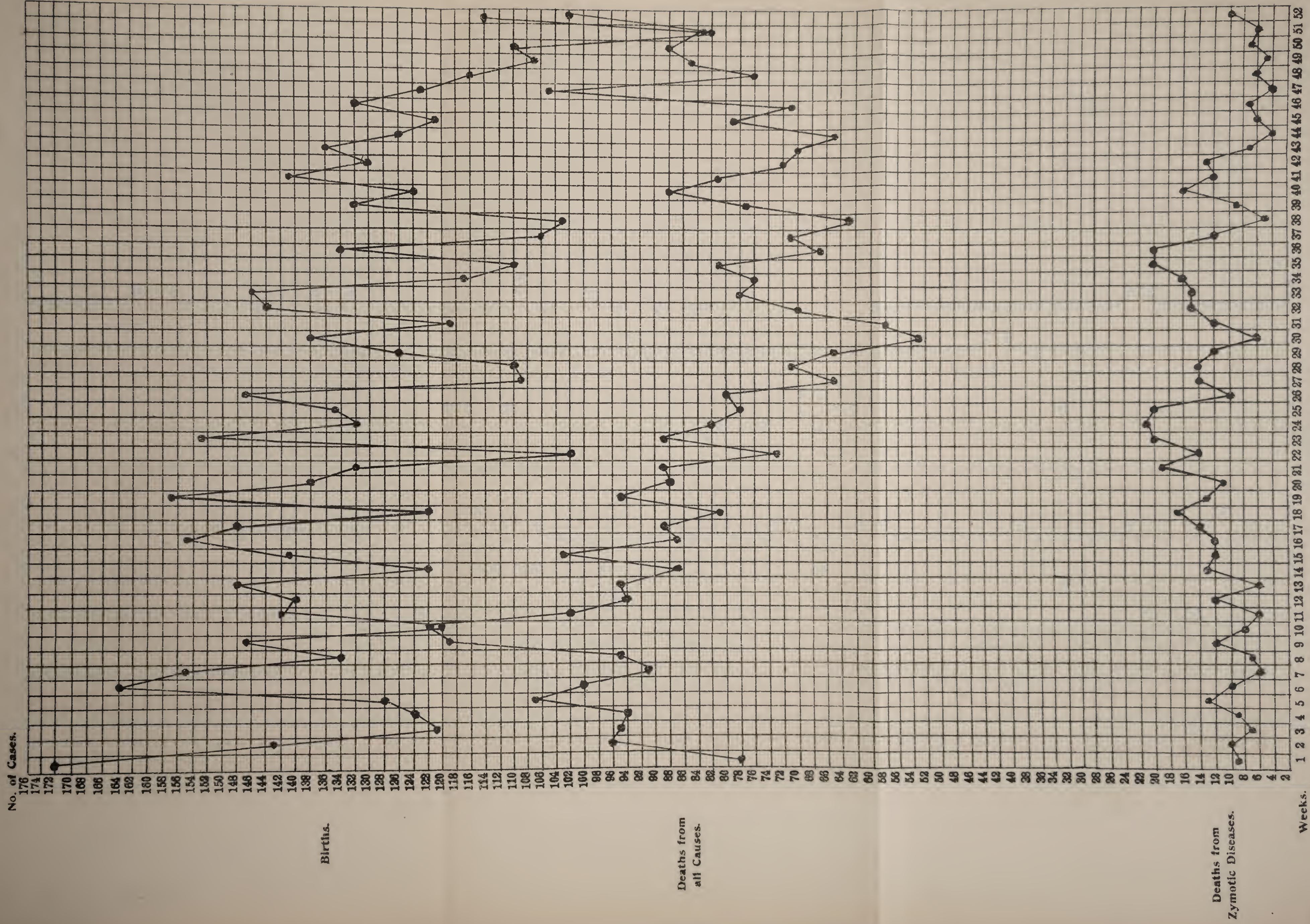






chart shows the number of births and deaths registered weekly from all causes, and from zymotic diseases, respectively.

**Acute Lung Diseases.**—From bronchitis, pneumonia, and pleurisy, 1,071 deaths were registered, against 849, for 1908, 1,014 for 1907, and 880 for 1906. From bronchitis there were 530 deaths, giving a death rate of 2·2 per thousand persons living, while from pneumonia there were 533 deaths, giving a death rate of 2·2. From respiratory diseases generally there were 217 more deaths than in 1908.

**Cancer.**—There were 189 deaths registered as being due to cancer or malignant disease, giving a death rate of 0·8 per thousand, as compared with 0·7 of last year.

**Nervous Diseases.**—From the various nervous diseases there were 382 deaths, giving a death rate of 1·6 per 1,000, as compared with 1·6 in 1908, 1·6 in 1907, 1·6 in 1906, and 1·8 the average for the five years 1901 to 1905.

**Heart Disease.**—There were 317 deaths from heart disease. This gives a death rate of 1·3 per 1,000, compared with 1·3 for 1908, 1·6 for 1907, 1·4 for 1906, and 1·5 the average for the five years 1901 to 1905.

**Comparison with Decennial Averages.**—In Table M 12 there will be found an interesting comparison of the deaths from various specified causes in 1909, with the decennial average number for the Borough. The greatest diminution was in diarrhoeal diseases, which were 171 below the average and the greatest excess was in respiratory diseases, which were 97 above the average.



**Phthisis, Tubercular Diseases, and Influenza.**—The mortality from these diseases will be found in Part II. of this report.

Out of the total number of deaths 4,027 or 92·2 per cent. were certified by Registered Medical Practitioners, 321 or 7·3 per cent. by the Coroner, and 21 or 0·5 per cent. were uncertified.

**Deaths at Various Ages.**—These are shown in detail in Tables Nos. M 4, 6 and 10. Comparing the death-rates with the previous year, it is found that under five years of age the rate is 55·5 per thousand, against 61·7 ; From 5 to 15 years of age the rate is 4·2, against 3·8 ; from 15 to 25, 3·4, against 3·7 ; from 25 to 65, 14·6, against 13·8 ; and over 65, 118·6, against 99·6 per thousand.

**Infant Mortality.**—There were 959 deaths of infants under one year of age registered during the year, giving a death rate of 141 per thousand births. This is a decrease on the previous year, when the death rate was 153 per thousand births, and is considerably under the average of the preceding five years, which was 159 per thousand births. The chief causes of death among infants, compared with the average of the preceding five years were—

|                                   |     |               |     |
|-----------------------------------|-----|---------------|-----|
| Zymotic diseases . . . . .        | 225 | compared with | 372 |
| Atrophy, marasmus, debility . .   | 112 | „ „           | 149 |
| Premature birth . . . . .         | 150 | „ „           | 143 |
| Convulsions . . . . .             | 46  | „ „           | 64  |
| Bronchitis and pneumonia . . .    | 214 | „ „           | 183 |
| Disease of digestive system . . . | 75  | „ „           | 62  |

The 225 deaths from Zymotic disease were principally due to diarrhœa, 84 ; tuberculosis, 54 ; measles, 26 ; and whooping cough, 26.

In Table No. M 13 the infant mortality rate for the 33 Great Towns is given, and Salford is 29th on the list. Compared with the eight Lancashire Towns, as regards Infantile Mortality, Salford stands the sixth, the rates being Oldham 122, Blackburn 127, Bolton 129, Manchester 134, Preston 136, Salford 141, Liverpool 144, and Burnley 157.

The work of the Health Visitors for the purpose of checking infant mortality, is dealt with in Part V. of this report.

**Senile Mortality.**—835 or 19 per cent. of the total deaths were those of persons of 65 years of age or over, this is three per cent. more than last year. Of these 117 were certified to have died from old age, 111 from heart disease, 196 from bronchitis, 74 from pneumonia, 105 from brain disease, and 62 from cancer.

**Comparison of the Death Rate in Salford with that in the 33 Great Towns.**—This is shown in Table No. M 13 where the details will be found. The death rate for the year in the whole of England and Wales was 14·5 per thousand, in the 76 Large Towns it averaged 15·6, and in Salford it was 18·0 per thousand.

**Classification of the Causes of Death.**—This is set out in full detail in Table No. M 10 appended to this report. From this it is seen that of this total, 4,369 deaths from all causes there were from—

Zymotic Diseases, including

|                               |       |       |   |
|-------------------------------|-------|-------|---|
| Tuberculosis, etc.....        |       | 1,243 | deaths, or 28·4 per cent. of the total deaths |
| Constitutional Diseases ..... | 239   | „     | 5·5 „ „                                       |
| Developmental „ .....         | 340   | „     | 7·8 „ „                                       |
| Local „ .....                 | 2,164 | „     | 49·5 „ „                                      |
| Other „ .....                 | 583   | „     | 8·8 „ „                                       |

**Zymotic Diseases.**—The death rate from the seven zymotic diseases for the year was 2·4 per thousand of the population, as compared with 3·0 in the previous year, 2·1 in 1907, and 3·2 in 1906. The deaths from the various diseases are given in the following table :—

|                     | 1909          | 1908 |                      | 1909 | 1908 |
|---------------------|---------------|------|----------------------|------|------|
| Measles.....        | 192           | 168  | Whooping Cough ..... | 47   | 103  |
| Scarlet Fever ..... | 82            | 65   | Diphtheria.....      | 107  | 125  |
| Fever {             | Typhus .....  | —    | Diarrhœa ... .       | 116  | 231  |
|                     | Enteric ..... | 39   | Small Pox .....      | —    | —    |
|                     | Continued ... | 1    |                      |      |      |

Detailed information as to zymotic sickness will be found in Part II. of this report.

## STATISTICAL SUMMARY, 1909.

**Population.**—Estimated to the middle of the year .....

|                    |         |                      |         |
|--------------------|---------|----------------------|---------|
| <b>Males</b> ..... | 116,946 | } <b>Total</b> ..... | 241,950 |
| <b>Females</b> ... | 125,004 |                      |         |

**Births** .....

|                    |       |                      |       |
|--------------------|-------|----------------------|-------|
| <b>Males</b> ..... | 3,491 | } <b>Total</b> ..... | 6,778 |
| <b>Females</b> ... | 3,287 |                      |       |

**Annual Rate of Births per 1,000 of the Population**..... 28.0

**Deaths under One Year of Age per 1,000 Births**..... 141

**Deaths** .....

|                    |       |                      |       |
|--------------------|-------|----------------------|-------|
| <b>Males</b> ..... | 2,260 | } <b>Total</b> ..... | 4,369 |
| <b>Females</b> ... | 2,109 |                      |       |

**Annual Rate of Mortality per 1,000** .....

|                    |      |                      |      |
|--------------------|------|----------------------|------|
| <b>Males</b> ..... | 19.3 | } <b>Total</b> ..... | 18.0 |
| <b>Females</b> ... | 16.9 |                      |      |

**Annual Rate of Mortality per 1,000 from the seven principal Zymotic Diseases** .....

|  |     |
|--|-----|
|  | 2.4 |
|--|-----|

**Excess of Registered Births over Deaths** .....

|  |       |
|--|-------|
|  | 2,409 |
|--|-------|

**Estimated Annual Increase of Population** .....

|  |       |
|--|-------|
|  | 2,656 |
|--|-------|

**Density.**—The mean density of the Borough is equal to 46.5 persons per acre.

**Area.**—The Municipal Borough of Salford has a total area of 5,202 acres.

**Elevation.**—The mean elevation of the Borough is 140 feet above sea-level and varies between 85 feet and 250 feet.



TABLE M. 1.  
FOR WHOLE DISTRICT.

| YEAR                                   | 1.    | Population<br>estimated<br>to<br>Middle<br>of each<br>Year. | BIRTHS. |        | DEATHS UNDER<br>ONE YEAR OF AGE. |  | DEATHS AT ALL AGES.<br>TOTAL. |        | Deaths in<br>Public<br>Institu-<br>tions. | Deaths of<br>Non-<br>Residents<br>registered<br>in<br>District. | Deaths<br>of<br>Residents<br>registered<br>beyond<br>District. | DEATHS AT ALL AGES.<br>NETT. |        |
|--|-------|---|---------|--------|----------------------------------|--|-------------------------------|--------|---|---|--|------------------------------|--------|
|  |       |   | Number. | *Rate. | Number.                          | Rate per<br>1,000<br>Births<br>registered. | Number.                       | *Rate. |   |   |  | Number.                      | *Rate. |
|  |       |   |         |        |                                  |  |                               |        |   |   |  |                              |        |
| 1899                                   | ..... | 216,612   | 7378    | 34.1   | 1556                             | 211  | 5205                          | 24.0   | 892                                       | 90  | 72   | 5187                         | 23.9   |
| 1900                                   | ..... | 218,965   | 7299    | 33.3   | 1520                             | 208  | 5588                          | 25.5   | 1104                                      | 104   | 58   | 5542                         | 25.3   |
| 1901                                   | ..... | 221,587   | 6457    | 29.1   | 1324                             | 205  | 4872                          | 22.0   | 1022                                      | 126   | 56   | 4802                         | 21.7   |
| 1902                                   | ..... | 224,007   | 7699    | 33.7   | 1211                             | 157  | 4449                          | 19.5   | 935                                       | 136   | 62   | 4375                         | 19.2   |
| 1903                                   | ..... | 226,480   | 7284    | 32.2   | 1226                             | 168  | 4329                          | 19.1   | 861                                       | 90  | 86   | 4325                         | 19.1   |
| 1904                                   | ..... | 228,983   | 7261    | 31.7   | 1399                             | 193  | 4843                          | 21.2   | 1013                                      | 86  | 52   | 4809                         | 21.0   |
| 1905                                   | ..... | 231,514   | 7165    | 30.9   | 1062                             | 148  | 3970                          | 17.1   | 968                                       | 84  | 94   | 3980                         | 17.2   |
| 1906                                   | ..... | 234,077   | 7059    | 30.2   | 1141                             | 162  | 4294                          | 18.3   | 966                                       | 57  | 85   | 4322                         | 18.5   |
| 1907                                   | ..... | 236,670   | 6956    | 29.4   | 975                              | 140  | 4207                          | 17.8   | 977                                       | 92  | 92   | 4207                         | 17.8   |
| 1908                                   | ..... | 239,294   | 7264    | 29.8   | 1110                             | 153  | 4351                          | 17.8   | 1031                                      | 84  | 89   | 4356                         | 17.9   |
| Averages for Years<br>1899—1908..... } |       | 227,819   | 7182    | 31.4   | 1252                             | 174  | 4611                          | 20.2   | 977                                       | 95  | 75   | 4590                         | 20.2   |
| 1909                                   | ..... | 241,950   | 6778    | 28.0   | 959                              | 141  | 4402                          | 18.2   | 1088                                      | 119   | 86   | 4369                         | 18.0   |

\* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

NOTE.—The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-Residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

Area of district in acres (exclusive of area covered by water) ... 5,202

|                                     |    |    |    |    |    |         |
|-------------------------------------|----|----|----|----|----|---------|
| Total Population at All Ages        | .. | .. | .. | .. | .. | 220,957 |
| Number of Inhabited Houses          | .. | .. | .. | .. | .. | 44,001  |
| Average Number of Persons per house | .. | .. | .. | .. | .. | 5.02    |

At Census of 1901.



TABLE M. 2.

| WARD.               | Population<br>Estimated to<br>the Middle of<br>the year. | Birth-rate<br>per 1,000. | Death-rate<br>per 1,000. | Deaths<br>under 1 year<br>per 1,000<br>Births. |
|---------------------|--|--------------------------|--------------------------|--|
| Kersal .....        | 17,869   | 15·4                     | 12·5                     | 131  |
| Albert Park .....   | 16,857   | 26·7                     | 14·3                     | 100  |
| Grosvenor .....     | 14,989   | 23·6                     | 14·1                     | 110  |
| St. Matthias' ..... | 13,927   | 32·4                     | 21·7                     | 157  |
| Trinity .....       | 11,700   | 30·6                     | 25·1                     | 170  |
| Crescent .....      | 13,227   | 28·7                     | 22·8                     | 184  |
| Islington .....     | 11,060   | 37·6                     | 28·9                     | 197  |
| Regent .....        | 13,209   | 28·3                     | 19·2                     | 152  |
| Ordsall .....       | 15,781   | 35·4                     | 20·8                     | 145  |
| Trafford .....      | 12,253   | 34·9                     | 19·1                     | 164  |
| Charlestown .....   | 15,197   | 33·0                     | 20·3                     | 151  |
| St. Thomas' .....   | 12,012   | 28·4                     | 19·4                     | 150  |
| St. Paul's.....     | 12,790   | 34·5                     | 19·0                     | 147  |
| Seedley .....       | 23,695   | 26·7                     | 16·4                     | 130  |
| Weaste .....        | 15,073   | 18·1                     | 13·3                     | 81   |
| Hope .....          | 22,311   | 24·4                     | 12·8                     | 94   |
| <b>Totals .....</b> | <b>241,950</b>   | <b>28·0</b>              | <b>18·0</b>              | <b>141</b>                                     |

TABLE M. 3.  
DEATHS IN WARDS FOR FOR THE YEAR 1909.

| CAUSES OF DEATH.                      | AT ALL AGES. |         |              |            |               |          |           |            |         |         |           |              |             |             |          |        |       |  |
|---------------------------------------|--------------|---------|--------------|------------|---------------|----------|-----------|------------|---------|---------|-----------|--------------|-------------|-------------|----------|--------|-------|--|
|                                       | Borough.     | Kersal. | Albert Park. | Grosvenor. | St. Matthias. | Trinity. | Crescent. | Islington. | Regent. | Ordall. | Trafford. | Charlestown. | St. Thomas. | St. Paul's. | Seedley. | Waste. | Hope. |  |
| Small-pox .....                       | ..           | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |  |
| Measles .....                         | 192          | 3       | 5            | 3          | 16            | 9        | 17        | 12         | 11      | 28      | 17        | 9            | 18          | 11          | 21       | 5      | 7     |  |
| Scarlet Fever.....                    | 82           | 5       | 4            | 2          | 4             | 2        | 4         | 4          | 4       | 4       | 1         | 7            | 8           | 9           | 9        | 3      | 12    |  |
| Whooping-cough .....                  | 47           | ..      | 1            | 4          | 6             | 1        | 5         | 2          | 2       | 7       | ..        | ..           | 2           | 3           | 10       | 2      | 2     |  |
| Diphtheria (including Memb'ous croup) | 107          | 6       | 5            | 8          | 5             | 7        | 4         | 5          | 7       | 5       | 4         | 11           | 4           | 8           | 5        | 14     | 9     |  |
| Croup .....                           | 12           | ..      | ..           | ..         | 4             | ..       | ..        | ..         | ..      | 2       | 1         | 2            | ..          | ..          | 3        | ..     | ..    |  |
| Fever { Typhus .....                  | ..           | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |  |
|                                       | 39           | ..      | 2            | 3          | 1             | 3        | 3         | 2          | 3       | 5       | 2         | 1            | 2           | ..          | 3        | 5      | 4     |  |
|                                       | 1            | ..      | 1            | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |  |
| Other continued .....                 |              |         |              |            |               |          |           |            |         |         |           |              |             |             |          |        |       |  |
| Epidemic influenza.....               | 67           | 5       | 2            | 7          | 3             | 5        | 3         | 6          | 2       | 2       | 3         | 1            | 3           | 6           | 7        | 3      | 9     |  |
| Cholera .....                         | ..           | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |  |
| Plague .....                          | ..           | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |  |
| Diarrhoea .....                       | 96           | 2       | 5            | 3          | 12            | 6        | 8         | 9          | 4       | 10      | 7         | 14           | 5           | 2           | 4        | 2      | 3     |  |
| Enteritis .....                       | 61           | ..      | 2            | 2          | ..            | 4        | 8         | 7          | 6       | 3       | 2         | 5            | 7           | 4           | 3        | 1      | 7     |  |
| Gastritis .....                       | 18           | ..      | 1            | 1          | ..            | ..       | 2         | 2          | ..      | ..      | 3         | 1            | 1           | 5           | 1        | 1      | ..    |  |
| Puerperal fever .....                 | 7            | ..      | ..           | 1          | ..            | 2        | 1         | ..         | 1       | ..      | ..        | ..           | ..          | ..          | 1        | ..     | 1     |  |
|                                       | 2            | 3       | 4            | 5          | 6             | 7        | 8         | 9          | 10      | 11      | 12        | 13           | 14          | 15          | 16       | 17     | 18    |  |
|                                       | 1            |         |              |            |               |          |           |            |         |         |           |              |             |             |          |        |       |  |

MORTALITY STATISTICS.

| 1                                      | 2    | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Erysipelas.....                        | 9    | 1   | ..  | ..  | ..  | 1   | ..  | ..  | 2   | 1   | 1   | 2   | ..  | 1   | ..  | ..  | ..  |
| Phthisis (Pulmonary Tuberculosis) ..   | 355  | 13  | 20  | 16  | 33  | 40  | 22  | 27  | 12  | 30  | 20  | 22  | 17  | 16  | 24  | 22  | 21  |
| Other tubercular diseases .....        | 157  | 4   | 3   | 4   | 18  | 14  | 12  | 12  | 8   | 17  | 14  | 11  | 6   | 8   | 15  | 5   | 6   |
| Cancer, malignant disease .....        | 189  | 18  | 20  | 9   | 9   | 7   | 7   | 12  | 7   | 9   | 6   | 13  | 10  | 12  | 19  | 17  | 14  |
| Bronchitis.....                        | 530  | 42  | 24  | 26  | 48  | 34  | 29  | 41  | 30  | 39  | 25  | 45  | 28  | 29  | 33  | 23  | 34  |
| Pneumonia .....                        | 533  | 20  | 23  | 21  | 38  | 27  | 42  | 37  | 45  | 49  | 34  | 33  | 31  | 31  | 42  | 16  | 44  |
| Pleurisy .....                         | 8    | ..  | ..  | 1   | ..  | ..  | 2   | 1   | ..  | 2   | ..  | ..  | ..  | 1   | 1   | ..  | ..  |
| Other diseases of Respiratory organs . | 24   | ..  | 2   | 1   | ..  | 2   | 2   | 3   | 2   | 1   | ..  | 2   | 1   | 1   | 3   | 1   | 3   |
| Alcoholism, Cirrhosis of liver .....   | 43   | 3   | 3   | 1   | 7   | 2   | 6   | 3   | 2   | 5   | 1   | 2   | 1   | ..  | 3   | 1   | 3   |
| Venereal diseases .....                | 31   | 1   | 2   | 2   | 4   | 6   | 2   | 1   | ..  | 1   | 2   | 1   | 1   | ..  | 4   | 2   | 2   |
| Premature birth .....                  | 150  | 4   | 8   | 12  | 10  | 9   | 6   | 16  | 7   | 14  | 16  | 12  | 8   | 6   | 8   | 6   | 8   |
| Diseases and accidents of parturition  | 10   | 1   | ..  | 1   | 2   | 1   | ..  | 1   | 1   | 1   | ..  | ..  | 1   | ..  | 1   | ..  | ..  |
| Heart diseases .....                   | 317  | 21  | 24  | 19  | 17  | 24  | 26  | 24  | 19  | 18  | 8   | 21  | 18  | 16  | 34  | 12  | 16  |
| Brain and Nervous diseases .....       | 382  | 23  | 19  | 24  | 17  | 30  | 20  | 26  | 18  | 22  | 19  | 28  | 13  | 22  | 45  | 26  | 30  |
| Urinary diseases .....                 | 107  | 7   | 5   | 4   | 4   | 5   | 10  | 9   | 12  | 5   | 3   | 8   | 4   | 4   | 8   | 5   | 14  |
| Atrophy and Marasmus .....             | 117  | 2   | 7   | 3   | 8   | 8   | 14  | 14  | 6   | 6   | 4   | 7   | 8   | 13  | 10  | 3   | 4   |
| Accidents .....                        | 129  | 4   | 8   | 7   | 7   | 12  | 9   | 12  | 8   | 15  | 11  | 9   | 5   | 8   | 8   | 1   | 5   |
| Suicides.....                          | 24   | 1   | 5   | 2   | ..  | 2   | 3   | 1   | ..  | 1   | ..  | 2   | ..  | 2   | 3   | ..  | 2   |
| All other causes .....                 | 525  | 37  | 40  | 24  | 29  | 31  | 35  | 31  | 35  | 27  | 30  | 40  | 31  | 25  | 60  | 24  | 26  |
| All causes.....                        | 4369 | 223 | 241 | 211 | 302 | 294 | 302 | 320 | 254 | 329 | 234 | 309 | 233 | 243 | 388 | 200 | 286 |

TABLE M. 4.

CAUSES OF, AND AGES AT, DEATH DURING THE YEAR 1909.

| CAUSES OF DEATH.                                | DEATHS AT THE SUBJOINED AGES OF RESIDENTS,<br>WHETHER OCCURRING IN OR BEYOND THE DISTRICT. |          |                   |                    |                     |                     |                    | DEATHS IN PUBLIC<br>INSTITUTIONS. |
|---|--|----------|-------------------|--------------------|---------------------|---------------------|--------------------|-----------------------------------|
|   | All Ages.  | Under 1. | 1 and<br>under 5. | 5 and<br>under 15. | 15 and<br>under 25. | 25 and<br>under 65. | 65 and<br>upwards. |                                   |
| Small-pox .....                                 | ...  | ...      | ...               | ...                | ...                 | ...                 | ...                | ...                               |
| Measles .....                                   | 192  | 26       | 156               | 10                 | ...                 | ...                 | ...                | 3                                 |
| Scarlet Fever.....                              | 82   | 1        | 59                | 19                 | 1                   | 1                   | 1                  | 84                                |
| Whooping Cough .....                            | 47   | 26       | 20                | 1                  | .                   | ...                 | ...                | ...                               |
| Diphtheria and Mem-<br>branous Croup.....       | 107  | 4        | 63                | 39                 | ...                 | 1                   | ...                | 89                                |
| Croup .....                                     | 12   | 1        | 9                 | 2                  | ...                 | ...                 | ...                | ...                               |
| Fever { Typhus .....                            | ...  | ...      | ...               | ...                | ...                 | ...                 | ...                | ...                               |
| { Enteric .....                                 | 39   | ...      | 1                 | 6                  | 8                   | 24                  | ...                | 42                                |
| { Other Continued .....                         | 1  | ...      | ...               | ...                | ...                 | 1                   | ...                | ...                               |
| Epidemic Influenza .....                        | 67   | 1        | 2                 | 4                  | 1                   | 34                  | 25                 | 5                                 |
| Cholera .....                                   | ...  | ...      | ...               | ...                | ...                 | ...                 | ...                | ...                               |
| Plague.....                                     | ...  | ...      | ...               | ...                | ...                 | ...                 | ...                | ...                               |
| Diarrhœa .....                                  | 96   | 67       | 21                | ...                | ...                 | 4                   | 4                  | 4                                 |
| Enteritis.....                                  | 61   | 43       | 11                | ...                | ...                 | 6                   | 1                  | 11                                |
| Gastritis.....                                  | 18   | 16       | 2                 | ...                | ...                 | ...                 | ...                | ...                               |
| Puerperal Fever .....                           | 7  | ..       | ...               | ...                | 4                   | 3                   | ...                | 3                                 |
| Erysipelas .....                                | 9  | 3        | 1                 | ...                | ...                 | 3                   | 2                  | 4                                 |
| Phthisis .....                                  | 355  | 7        | 9                 | 11                 | 50                  | 270                 | 8                  | 117                               |
| Other Tubercular Diseases.                      | 157  | 47       | 46                | 36                 | 12                  | 15                  | 1                  | 15                                |
| Cancer, Malignant Disease.                      | 189  | ...      | ...               | 1                  | 1                   | 125                 | 62                 | 46                                |
| Bronchitis .....                                | 530  | 93       | 40                | 2                  | 1                   | 198                 | 196                | 93                                |
| Pneumonia .....                                 | 533  | 121      | 121               | 19                 | 25                  | 173                 | 74                 | 103                               |
| Pleurisy .....                                  | 8  | ...      | ...               | ...                | ...                 | 2                   | 6                  | 5                                 |
| Other Diseases of Respira-<br>tory Organs ..... | 24   | 1        | 11                | ...                | 3                   | 5                   | 4                  | ...                               |
| Alcoholism .....                                | 43   | 1        | ...               | ...                | ...                 | 41                  | 1                  | 9                                 |
| Cirrhosis of Liver.....                         |  |          |                   |                    |                     |                     |                    |                                   |
| Venereal Diseases.....                          | 31   | 24       | 2                 | 1                  | ...                 | 2                   | 2                  | 13                                |
| Premature Birth .....                           | 150  | 150      | ...               | ...                | ...                 | ...                 | ...                | 12                                |
| Diseases and Accidents of<br>Parturition .....  | 10   | ...      | ...               | ...                | 3                   | 7                   | ...                | ...                               |
| Heart Diseases .....                            | 317  | 1        | 3                 | 8                  | 18                  | 176                 | 111                | 73                                |
| Brain and Nervous Diseases                      | 382  | 70       | 26                | 11                 | 8                   | 162                 | 105                | 70                                |
| Urinary diseases .....                          | 107  | ...      | 4                 | 5                  | 3                   | 65                  | 30                 | 29                                |
| Atrophy and Marasmus ...                        | 117  | 112      | 4                 | ...                | ...                 | 1                   | ...                | 12                                |
| Accidents .....                                 | 129  | 12       | 21                | 15                 | 7                   | 55                  | 19                 | 77                                |
| Suicides .....                                  | 24   | ...      | ...               | ...                | 5                   | 16                  | 3                  | 8                                 |
| All other causes .....                          | 525  | 132      | 25                | 25                 | 20                  | 143                 | 180                | 161                               |
| All Causes.....                                 | 4369   | 959      | 657               | 215                | 170                 | 1533                | 835                | 1088                              |





TABLE M. 6.

ESTIMATED POPULATION, AND ANNUAL RATES OF MORTALITY, AT ALL AGES, AND AT FIVE GROUPS OF AGES,  
IN THE FIFTY-TWO WEEKS OF THE YEAR 1909.

|                   | PERSONS.                          |                 |                             | MALES.                            |                  |                             | FEMALES.                          |                  |                             |
|-------------------|-----------------------------------|-----------------|-----------------------------|-----------------------------------|------------------|-----------------------------|-----------------------------------|------------------|-----------------------------|
|                   | Estimated<br>Population,<br>1909. | Deaths,<br>1909 | Rate per<br>1,000,<br>1909. | Estimated<br>Population,<br>1909. | Deaths,<br>1909. | Rate per<br>1,000,<br>1909. | Estimated<br>Population,<br>1909. | Deaths,<br>1909. | Rate per<br>1,000,<br>1909. |
| All Ages .....    | 241,950                           | 4,369           | 18.0                        | 116,946                           | 2,260            | 19.3                        | 125,004                           | 2,109            | 16.9                        |
| Under 5 Years ... | 29,120                            | 1,616           | 55.5                        | 14,438                            | 914              | 63.3                        | 14,682                            | 702              | 47.8                        |
| 5 to 15    "      | 51,180                            | 215             | 4.2                         | 25,463                            | 106              | 4.2                         | 25,717                            | 109              | 4.2                         |
| 15 to 25   "      | 49,621                            | 170             | 3.4                         | 23,664                            | 102              | 4.3                         | 25,957                            | 68               | 2.6                         |
| 25 to 65   "      | 104,988                           | 1,533           | 14.6                        | 50,556                            | 786              | 15.5                        | 54,432                            | 747              | 13.7                        |
| 65 and upwards... | 7,041                             | 835             | 118.6                       | 2,825                             | 352              | 124.6                       | 4,216                             | 483              | 114.3                       |



TABLE M. 7.

POPULATIONS AND DEATH RATES, FOR THE COUNTY BOROUGH OF  
SALFORD FOR THE YEARS 1844 TO 1877, AND BIRTH AND  
MARRIAGE RATES FOR THE YEARS 1861 TO 1877.

| Year.      | Population. | Birth Rate. | Death Rate. | Marriage Rate. |
|------------|-------------|-------------|-------------|----------------|
| 1844 ..... | 75414       | .....       | 24·6        | .....          |
| 1845 ..... | 77144       | .....       | 23·8        | .....          |
| 1846 ..... | 78874       | .....       | 32·7        | .....          |
| 1847 ..... | 80604       | .....       | 28·0        | .....          |
| 1848 ..... | 82334       | .....       | 29·9        | .....          |
| 1849 ..... | 84064       | .....       | 30·6        | .....          |
| 1850 ..... | 85794       | .....       | 25·8        | .....          |
| 1851 ..... | 87523       | .....       | 25·1        | .....          |
| 1852 ..... | 88953       | .....       | 28·0        | .....          |
| 1853 ..... | 90406       | .....       | 27·2        | .....          |
| 1854 ..... | 91883       | .....       | 28·9        | .....          |
| 1855 ..... | 93384       | .....       | 27·1        | .....          |
| 1856 ..... | 94910       | .....       | 24·1        | .....          |
| 1857 ..... | 96460       | .....       | 26·1        | .....          |
| 1858 ..... | 98036       | .....       | 30·4        | .....          |
| 1859 ..... | 99640       | ... ..      | 24·9        | .....          |
| 1860 ..... | 101277      | .....       | 24·4        | .....          |
| 1861 ..... | 102920      | 39·7        | 24·6        | 11·9           |
| 1862 ..... | 104975      | 39·0        | 25·3        | 10·2           |
| 1863 ..... | 107075      | 38·0        | 26·0        | 11·7           |
| 1864 ..... | 109262      | 38·6        | 26·5        | 12·7           |
| 1865 ..... | 111393      | 37·8        | 29·1        | 12·9           |
| 1866 ..... | 113614      | 37·9        | 28·8        | 13·4           |
| 1867 ..... | 115885      | 39·0        | 28·2        | 14·3           |
| 1868 ..... | 118198      | 39·3        | 30·5        | 13·3           |
| 1869 ..... | 120526      | 38·9        | 26·4        | 14·1           |
| 1870 ..... | 122965      | 39·6        | 25·8        | 14·1           |
| 1871 ..... | 125890      | 40·7        | 30·3        | 14·6           |
| 1872 ..... | 130301      | 41·4        | 25·3        | 15·1           |
| 1873 ..... | 134883      | 41·5        | 28·3        | 14·3           |
| 1874 ..... | 139618      | 42·1        | 28·2        | 16·2           |
| 1875 ..... | 144518      | 44·4        | 29·5        | 17·5           |
| 1876 ..... | 149591      | 45·5        | 29·5        | 20·5           |
| 1877 ..... | 154842      | 44·4        | 26·3        | 19·6           |

**TABLE M. 8.**

BIRTHS IN THE COUNTY BOROUGH OF SALFORD AND IN ITS WARDS,  
DISTINGUISHING DEATHS OF LEGITIMATE AND ILLEGITIMATE  
INFANTS UNDER ONE YEAR OLD.  
FOR THE YEAR 1909

| WARD.              | Births.     |            | Percentage of<br>Illegitimate Births to<br>Total Births. | Deaths<br>under One<br>Year. |           | Proportion of Deaths<br>under One Year<br>per 1,000 Births. |            |            |
|--------------------|-------------|------------|--|------------------------------|-----------|---|------------|------------|
|                    | Total.      | Illegit.   |  | Total.                       | Illegit.  | Total.  | Legit.     | Illegit.   |
| Kersal .....       | 275         | 8          | 2·9  | 36                           | 3         | 131   | 124        | 375        |
| Albert Park .      | 450         | 22         | 4·9  | 45                           | 7         | 100   | 89         | 318        |
| Grosvenor ...      | 354         | 11         | 3·1  | 39                           | 1         | 110   | 111        | 91         |
| St. Matthias' .    | 451         | 12         | 2·7  | 71                           | 1         | 157   | 159        | 83         |
| Trinity .....      | 358         | 27         | 7·5  | 61                           | 11        | 170   | 151        | 407        |
| Crescent .....     | 380         | 8          | 2·1  | 70                           | 3         | 184   | 180        | 375        |
| Islington ....     | 416         | 27         | 6·5  | 82                           | 9         | 197   | 188        | 333        |
| Regent .....       | 374         | 16         | 4·3  | 57                           | 2         | 152   | 154        | 125        |
| Ordsall .....      | 559         | 17         | 3·0  | 81                           | 2         | 145   | 146        | 118        |
| Trafford .....     | 428         | 23         | 5·4  | 70                           | 8         | 164   | 153        | 348        |
| Charlestown .      | 502         | 9          | 1·8  | 76                           | 3         | 151   | 148        | 333        |
| St Thomas' ..      | 341         | 11         | 3·2  | 51                           | 5         | 150   | 139        | 454        |
| St. Paul's ...     | 441         | 11         | 2·5  | 65                           | 4         | 147   | 142        | 364        |
| Seedley .....      | 633         | 14         | 2·2  | 82                           | 5         | 130   | 124        | 357        |
| Weaste .....       | 272         | 12         | 4·4  | 22                           | 2         | 81  | 77         | 167        |
| Hope .....         | 544         | 16         | 2·9  | 51                           | 4         | 94  | 89         | 250        |
| <b>Totals ....</b> | <b>6778</b> | <b>244</b> | <b>3·6</b>   | <b>959</b>                   | <b>70</b> | <b>141</b>  | <b>136</b> | <b>287</b> |

CORRESPONDING DATA FOR THE BOROUGH FOR THE TEN YEARS 1899-1908.

|                      |              |             |            |              |            |            |            |            |
|----------------------|--------------|-------------|------------|--------------|------------|------------|------------|------------|
| <b>Borough .....</b> | <b>72209</b> | <b>2293</b> | <b>3·2</b> | <b>13153</b> | <b>738</b> | <b>182</b> | <b>178</b> | <b>322</b> |
|----------------------|--------------|-------------|------------|--------------|------------|------------|------------|------------|

TABLE M. 9.

AVERAGE ANNUAL RATES OF MORTALITY PER 1,000 LIVING AT CERTAIN AGE-GROUPS IN THE YEAR 1909, AND AT ALL AGES IN THE QUINQUENNIAL PERIODS 1898 to 1902 AND 1903 to 1907.

| CAUSES OF DEATH.                         | At all Ages.           |                     |       | Annual Death-Rates in the Year 1909.<br>at the following Age-Groups, and<br>from certain diseases. |       |        |        |       |
|--|------------------------|---------------------|-------|--|-------|--------|--------|-------|
|  | Quinquennial Means.    |                     | Year. |  |       |        |        |       |
|  | 189<br>to<br>1902.     | 1903<br>to<br>1907. | 1909. | Under<br>5<br>years.   | 5—15. | 15—25. | 25—65. | 65—   |
| All Causes .....                         | 22·6                   | 18·7                | 18·0  | 55·5   | 4·2   | 3·4    | 14·6   | 118·6 |
| Small Pox.....                           | 0·0                    | 0·0                 | 0·0   | 0·0  | 0·0   | 0·0    | 0·0    | 0·0   |
| Measles .....                            | 0·6                    | 0·6                 | 0·8   | 6·3  | 0·2   | 0·0    | 0·0    | 0·0   |
| Scarlet Fever .....                      | 0·3                    | 0·2                 | 0·3   | 2·1  | 0·4   | 0·0    | 0·0    | 0·1   |
| Diphtheria and Membranous<br>Croup ..... | 0·4                    | 0·4                 | 0·4   | 2·3  | 0·8   | 0·0    | 0·0    | 0·0   |
| Whooping Cough .....                     | 0·6                    | 0·4                 | 0·2   | 1·6  | 0·0   | 0·0    | 0·0    | 0·0   |
| Continued<br>Fever.<br>{                 | Typhus .....           |                     | 0·0   | 0·0  | 0·0   | 0·0    | 0·0    | 0·0   |
|  | Enteric .....          |                     | 0·2   | 0·0  | 0·1   | 0·2    | 0·2    | 0·0   |
|  | Continued .....        |                     | 0·0   | 0·0  | 0·0   | 0·0    | 0·0    | 0·0   |
| Diarrhoea and Dysentery ...              | 1·7                    | 1·1                 | 0·5   | 3·7  | 0·0   | 0·0    | 0·0    | 0·6   |
| Puerperal Fever .....                    | 0·0                    | 0·0                 | 0·0   | 0·0  | 0·0   | 0·1    | 0·0    | 0·0   |
| Phthisis .....                           | 1·8                    | 1·7                 | 1·5   | 0·5  | 0·2   | 1·0    | 2·6    | 1·1   |
| Other Tubercular Diseases ..             | 0·8                    | 0·7                 | 0·6   | 3·2  | 0·7   | 0·2    | 0·1    | 0·1   |
| Diseases of<br>{                         | Brain .....            |                     | 1·6   | 3·3  | 0·2   | 0·2    | 1·5    | 14·9  |
|  | Heart .....            |                     | 1·3   | 0·1  | 0·2   | 0·4    | 1·7    | 15·8  |
|  | Lungs .....            |                     | 4·4   | 12·9   | 0·4   | 0·5    | 3·6    | 39·2  |
|  | Digestive System ..... |                     | 0·9   | 3·1  | 0·3   | 0·3    | 0·7    | 2·6   |
| Other Diseases.....                      | 6·1                    | 5·0                 | 5·3   | 16·4   | 0·7   | 0·6    | 4·1    | 44·2  |



TABLE M. 10.

DEATHS REGISTERED IN THE COUNTY BOROUGH OF SALFORD, FROM ALL CAUSES DURING THE YEAR 1909.

| DISEASES.   | AGES IN YEARS. |        |        |        |        |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                | TOTAL. | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 65 | 65 and upwards |     |
|---|----------------|--------|--------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|--------|--------|---------|----------|----------|----------------|-----|
|   |                |        |        |        |        |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                |        |        |         |          |          |                |     |
|   | 0 to 1         | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 10 | 10 to 15 | 15 to 20 | 20 to 25 | 25 to 30 | 30 to 35 | 35 to 40 | 40 to 45 | 45 to 50 | 50 to 55 | 55 to 60 | 60 to 65 | 65 to 70 | 70 to 75 | 75 to 80 | 80 to 85 | 85 to 90 | 90 and upwards |        |        |         |          |          |                |     |
| I. SPEC: FEBRILE, OR ZYMOTIC DISEASES .....           | 225            | 180    | 104    | 63     | 36     | 93      | 37       | 33       | 44       | 58       | 64       | 47       | 55       | 46       | 33       | 38       | 36       | 23       | 12       | 13       | 1        | 2        | ...            | 1243   | 383    | 130     | 77       | 377      | 51             |     |
| II. PARASITIC DISEASES .....                          | 3              | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | 3      | ...    | ...     | ...      | ...      | ...            |     |
| III. DIETIC DISEASES .....                            | 112            | 4      | ...    | ...    | ...    | ...     | ...      | ...      | ...      | 1        | ...      | 1        | 1        | 1        | ...      | 2        | ...      | ...      | ...      | ...      | ...      | ...      | ...            | 122    | 4      | ...     | ...      | 6        | ...            |     |
| IV. CONSTITUTIONAL DISEASES .....                     | 2              | 2      | 1      | ...    | 2      | ...     | 1        | ...      | ...      | 5        | ...      | 11       | 20       | 18       | 27       | 31       | 34       | 42       | 18       | 11       | 2        | 1        | ...            | 239    | 5      | 1       | 2        | 155      | 74             |     |
| V. DEVELOPMENTAL Dis: ...                             | 208            | 3      | 3      | ...    | ...    | ...     | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 2        | 6        | 7        | 23       | 39       | 29       | 16       | 3              | 340    | 6      | 1       | ...      | 8        | 117            |     |
| VI. LOCAL DISEASES.....                               | 368            | 151    | 48     | 15     | 17     | 34      | 31       | 32       | 45       | 34       | 49       | 81       | 74       | 118      | 153      | 178      | 188      | 202      | 180      | 98       | 44       | 19       | 5              | 2164   | 231    | 65      | 77       | 875      | 548            |     |
| VII. DEATHS FROM VIOLENCE.                            | 12             | 6      | 6      | 7      | 2      | 14      | 1        | 4        | 8        | 11       | 6        | 8        | 8        | 10       | 14       | 5        | 9        | 8        | 6        | 2        | 3        | 2        | 1              | 153    | 21     | 15      | 12       | 71       | 22             |     |
| VIII. DEATHS FROM ILL-DEFINED & NOT SPECIFIED CAUSES. | 29             | 2      | 3      | 1      | 1      | 3       | ...      | 2        | ...      | 1        | 1        | 3        | 7        | 7        | 9        | 6        | 7        | 10       | 6        | 7        | ...      | ...      | ...            | 105    | 7      | 3       | 2        | 41       | 23             |     |
| TOTALS.....   | 959            | 348    | 165    | 86     | 58     | 144     | 71       | 71       | 99       | 110      | 129      | 151      | 165      | 200      | 236      | 262      | 280      | 292      | 245      | 170      | 79       | 40       | 9              | 4369   | 657    | 215     | 170      | 1533     | 835            |     |
| I.—Zymotic Diseases.                                  | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| Sm: Pox { Vaccinated .....                            | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| Unvaccinated .....                                    | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| No Statement .....                                    | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| Chicken Pox .....                                     | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| Measles .....   | 26             | 93     | 45     | 14     | 4      | 10      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | 192    | 156     | 10       | ...      | ...            | ... |
| Scarlet Fever .....                                   | 1              | 13     | 15     | 16     | 15     | 16      | 3        | 1        | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 1        | ...      | ...      | ...            | ...    | 82     | 59      | 19       | 1        | 1              | 1   |
| Diphtheria .....                                      | 3              | 20     | 12     | 18     | 10     | 32      | 6        | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...            | ...    | 102    | 60      | 38       | ...      | 1              | ... |
| Membranous Group .....                                | 1              | 2      | ...    | 1      | ...    | 1       | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | 5      | 3       | 1        | ...      | ...            | ... |
| Enteric Fever .....                                   | ...            | ...    | ...    | ...    | 1      | 4       | 2        | 4        | 4        | 6        | 4        | 5        | 1        | 3        | 2        | 3        | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | 39     | 1       | 6        | 8        | 24             | ... |
| Typhus Fever .....                                    | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | 1      | ...     | ...      | ...      | ...            | ... |
| Continued Fever.....                                  | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| Whooping Cough .....                                  | 26             | 5      | 8      | 5      | 2      | 1       | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | 47     | 20      | 1        | ...      | ...            | ... |
| Asiatic Cholera .....                                 | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| Diarrhoea, Dysentery .....                            | 83             | 21     | 2      | ...    | ...    | ...     | ...      | ...      | ...      | 1        | ...      | ...      | ...      | ...      | 1        | ...      | 1        | 1        | 1        | 1        | ...      | 1        | ...            | ...    | 114    | 23      | ...      | ...      | 4              | 4   |
| Epidemic Enteritis.....                               | 1              | 1      | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | 2      | 1       | ...      | ...      | ...            | ... |
| Other Allied Diseases .....                           | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | ...    | ...    | ...     | ...      | ...      | ...            | ... |
| Epidemic Influenza .....                              | 1              | 2      | ...    | ...    | ...    | 3       | 1        | 1        | ...      | ...      | 1        | 2        | 5        | 5        | 1        | 6        | 14       | 12       | 5        | 7        | ...      | 1        | ...            | 67     | 2      | 4       | 1        | ...      | ...            | 25  |
| Erysipelas .....                                      | 3              | ...    | 1      | ...    | ...    | ...     | ...      | ...      | ...      | ...      | ...      | 1        | ...      | 1        | 1        | ...      | ...      | 1        | 1        | ...      | ...      | ...      | ...            | 9      | 1      | ...     | ...      | 3        | 2              | ... |
| Puerperal Fever.....                                  | ...            | ...    | ...    | ...    | ...    | ...     | ...      | ...      | 4        | 2        | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...            | 7      | ...    | ...     | 4        | ...      | ...            | ... |
| Pyæmia Septicæmia .....                               | 1              | ...    | ...    | ...    | ...    | 1       | ...      | ...      | ...      | 2        | 1        | ...      | 1        | 1        | ...      | 1        | ...      | ...      | ...      | ...      | ...      | ...      | ...            | 8      | ...    | 1       | ...      | 6        | ...            | ... |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

|                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   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| Infective Endocarditis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 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| Dis: of ORG: SPECIAL SENSE.   |     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  |
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| Otitis                        | 3   | 1   | ... | ... | ... | ... | ... | 1   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Disease of Nose, Epistaxis    | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diseases of Eye               | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Dis: of CIRCULATORY SYS:      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Pericarditis                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Endocarditis                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Hypertrophy of Heart          | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Angina Pectoris               | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Aneurism                      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Senile Gangrene               | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Embolism, Thrombosis          | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Phlebitis                     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Varicose Veins                | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Heart Disease, Valvular       | ... | ... | ... | 1   | 1   | 1   | 3   | 5   | 3   | 4   | 3   | 6   | 10  | 20  | 13  | 17  | 13  | 14  | 8   | 4   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Other Dis: Heart and Vessels  | 1   | ... | ... | ... | ... | ... | 1   | 1   | 3   | 5   | 1   | 8   | 6   | 9   | 16  | 12  | 25  | 25  | 24  | 16  | 3   | 3   | 1   | 127 | 2   | 4   | 8   | 86  | 27  | ... |
| Dis: of RESPIRATORY SYS:      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Laryngitis                    | 1   | 2   | 3   | 2   | 3   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Croup                         | 1   | 5   | 4   | ... | ... | 2   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Other Dis: Larynx and Trachea | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Acute Bronchitis              | 93  | 30  | 6   | ... | 2   | 2   | ... | ... | 1   | 1   | 6   | 8   | 10  | 12  | 28  | 36  | 44  | 40  | 23  | 17  | 10  | 3   | 415 | 38  | 2   | 1   | 145 | 136 | ... | ... |
| Chronic Bronchitis            | ... | 1   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4   | 6   | 11  | 14  | 18  | 27  | 11  | 2   | ... | ... | 115 | 2   | ... | ... | 53  | 60  | ... | ... |
| Lobar Pneumonia               | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 2   | 2   | 7   | 5   | 2   | 2   | 7   | 3   | 4   | 2   | 3   | 4   | 2   | 2   | ... | 52  | 3   | 2   | 3   | 32  | 11  | ... | ... |
| Lobular Pneumonia             | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... |
| Pneumonia                     | 119 | 87  | 21  | 5   | 5   | 14  | 3   | 8   | 14  | 11  | 11  | 27  | 11  | 8   | 28  | 26  | 19  | 25  | 22  | 8   | 5   | 3   | 480 | 118 | 17  | 22  | 141 | 63  | ... | ... |
| Emphysema, Asthma             | ... | 1   | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | ... | 1   | ... | 2   | 1   | 2   | 1   | ... | 1   | ... | 11  | 1   | ... | 2   | 4   | 4   | 6   | ... |
| Pleurisy                      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | 1   | 2   | 2   | 2   | ... | ... | 8   | ... | ... | 1   | 2   | 2   | ... | ... |
| Other Dis: Respiratory System | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | ... | ... | ... | ... |
| Dis: of DIGESTIVE SYSTEM.     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Diseases of Mouth and Annexa  | 6   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diseases of Pharynx           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diseases of Æsophagus         | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Ulcer of Stomach & Duodenum   | 1   | 1   | 1   | ... | 1   | ... | ... | 2   | 1   | 1   | ... | 1   | ... | 2   | ... | 1   | ... | 3   | ... | ... | ... | ... | 13  | 1   | ... | 3   | 5   | 3   | ... | ... |
| Other Diseases of Stomach     | 17  | 1   | 1   | 1   | 1   | ... | 1   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 23  | 3   | ... | 1   | ... | ... | ... | ... |
| Enteritis                     | 36  | 5   | 2   | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | 2   | ... | 1   | 2   | ... | 1   | ... | ... | ... | 51  | 8   | ... | ... | 6   | ... | ... | ... |
| Appendicitis                  | ... | ... | ... | ... | ... | ... | ... | ... | 4   | 1   | 1   | ... | ... | ... | ... | 1   | ... | ... | 2   | ... | ... | ... | 21  | 1   | ... | 4   | 3   | 2   | ... | ... |
| Obstruction of Intestine      | 2   | 3   | ... | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | ... | 1   | ... | 1   | 1   | 2   | 1   | ... | ... | 14  | 3   | ... | ... | 4   | 4   | ... | ... |
| Other Diseases of Intestine   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | 2   | ... | ... | ... | 1   | ... | ... | ... | 6   | ... | ... | ... | ... | ... | ... | ... |
| Cirrhosis of Liver            | 1   | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | 7   | 9   | 8   | 2   | 1   | ... | ... | ... | ... | 40  | ... | ... | ... | ... | ... | ... | ... |
| Other Diseases of Liver       | 10  | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | 1   | ... | 2   | 2   | 1   | 1   | ... | ... | ... | 19  | ... | ... | ... | 1   | 6   | 2   | ... |





|                                   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  |
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| Eczema.....                       | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... |
| Pemphigus .....                   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | ... | ... | 3   | ... | ... | ... | ... | ... |
| Other Dis: Integumentary Sys:     | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| <b>VII.-Deaths from Violence.</b> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ACCIDENT OR NEGLIGENCE.           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| In Mines and Quarries .....       | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | 1   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3   | ... | ... | ... | ... | ... |
| In Vehicular Traffic .....        | ... | 1   | ... | ... | ... | 1   | ... | ... | 2   | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | 1   | ... | 6   | ... | 1   | 2   | 1   | 1   |
| On Railways .....                 | ... | ... | 1   | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4   | ... | ... | 3   | ... | ... |
| On Ships, Boats, &c., not Drown'g | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| In Building Operations .....      | ... | ... | ... | ... | ... | ... | ... | 1   | ... | 1   | 2   | ... | 1   | 1   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| By Machinery .....                | ... | ... | ... | ... | ... | ... | ... | 1   | ... | 1   | ... | ... | 1   | 1   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | 8   | ... | ... | ... | ... | ... |
| By Weapons and Implements..       | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | 1   | 7   | ... | ... |
| Burns and Scalds .....            | ... | 2   | 4   | 5   | 2   | 9   | 1   | 3   | ... | ... | ... | ... | ... | ... | ... | ... | 2   | 1   | 1   | 1   | ... | ... | ... | 32  | ... | 10  | 3   | 4   | 2   |
| Poisons, Poisonous Vapours ...    | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | ... | ... | ... | ... | 4   | ... | ... | ... | 2   | 1   | 1   |
| Surgical Narcosis .....           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Effects of Electric Shock .....   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... |
| Corrosions by Chemicals .....     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Drowning .....                    | 1   | ... | 1   | 2   | ... | 2   | ... | ... | 1   | 2   | ... | 1   | 1   | 1   | 3   | 1   | ... | 1   | ... | ... | ... | ... | 17  | 3   | 2   | 1   | 9   | 1   | 1   |
| Suffocation, Overlaid in Bed...   | 9   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 9   | ... | ... | ... | ... | ... | ... |
| "    Otherwise .....              | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Falls not specified .....         | 1   | 1   | ... | ... | ... | 1   | ... | ... | ... | 1   | 1   | 3   | 2   | 3   | 4   | ... | 4   | 4   | 2   | 2   | 3   | ... | 1   | 33  | 1   | 1   | 18  | 12  | 12  |
| Weather Agencies .....            | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Otherwise not stated .....        | ... | 1   | ... | ... | ... | 1   | ... | ... | 2   | ... | ... | ... | 1   | ... | ... | 1   | 1   | 1   | 1   | ... | ... | ... | 9   | 1   | 1   | 1   | 5   | 2   | 2   |
| Homicide .....                    | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | 1   | ... | ... |
| <b>SUICIDES.</b>                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Suicides by Poison .....          | ... | ... | ... | ... | ... | ... | ... | ... | 1   | 2   | ... | 1   | ... | ... | 1   | ... | 1   | 1   | 1   | ... | ... | ... | ... | 8   | ... | ... | 1   | 5   | 2   |
| By Asphyxia .....                 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | 1   | ... | ... |
| By Hanging and Strangulation      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | 1   | ... | ... | ... | ... | ... | ... | ... | 2   | ... | ... | 2   | ... | ... |
| By Drowning .....                 | ... | ... | ... | ... | ... | ... | ... | ... | 2   | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | 3   | ... | ... | 1   | ... | ... |
| By Shooting.....                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| By Cut or Stab .....              | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | 2   | 2   | 1   | ... | 1   | ... | ... | ... | ... | 1   | 8   | ... | ... | 1   | 6   | 1   | 1   |
| By Precip. from Elevated Places   | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| By Crushing .....                 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| By other & Unspec: methods..      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| <b>VIII.--Ill-defined.</b>        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Abscess .....                     | 1   | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | 1   | 1   | ... | ... | 2   | ... | ... | ... | ... | ... | 6   | ... | ... | 1   | 2   | 2   |
| Tumour.....                       | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | 1   | ... | 1   | ... | ... | ... | 3   | ... | ... | ... | 1   | 2   |
| Hæmorrhage .....                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ... | ... | 1   | ... |
| Dropsy ...                        | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Sudden Death, cause not asc't'd   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Ill-defined & Unspecified causes  | 28  | 2   | 3   | 1   | 1   | 3   | ... | 1   | ... | 1   | 1   | 3   | 6   | 6   | 8   | 5   | 7   | 7   | 6   | 6   | ... | ... | 95  | 7   | 3   | 1   | 37  | 19  |     |

TABLE M. 11.

CAUSES OF DEATH REGISTERED IN EACH OF THE TEN YEARS 1899-1908,  
IN 1909, AND THE AVERAGE DECENNIAL NUMBER.

|                             | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | Average | 1909 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|---------|------|
| All Causes .....            | 5187 | 5542 | 4802 | 4375 | 4325 | 4809 | 3980 | 4322 | 4207 | 4356 | 4590    | 4369 |
| Small-pox .....             | ...  | 1    | ...  | 1    | 1    | 2    | ...  | ...  | ...  | ...  | ...     | ...  |
| Measles .....               | 211  | 125  | 114  | 156  | 131  | 254  | 73   | 185  | 103  | 168  | 152     | 192  |
| Scarlet Fever .....         | 50   | 99   | 106  | 50   | 57   | 56   | 66   | 44   | 62   | 65   | 65      | 82   |
| Whooping Cough .....        | 99   | 186  | 91   | 118  | 96   | 139  | 46   | 52   | 143  | 103  | 107     | 47   |
| Diphtheria & Memb. Croup    | 75   | 90   | 140  | 75   | 86   | 116  | 81   | 90   | 74   | 125  | 95      | 107  |
| Croup .....                 | 7    | 8    | 6    | 7    | 9    | 2    | 4    | 4    | 2    | 1    | 5       | 12   |
| Typhus Fever .....          | ...  | 1    | 1    | 12   | ...  | 4    | ...  | ...  | ...  | ...  | 2       | ...  |
| Enteric Fever .....         | 76   | 66   | 75   | 48   | 48   | 47   | 44   | 41   | 20   | 42   | 51      | 39   |
| Other Continued Fever ...   | 1    | ...  | ...  | ...  | 1    | 1    | ...  | 1    | ...  | ...  | ...     | 1    |
| Epidemic Influenza .....    | 83   | 137  | 34   | 38   | 36   | 31   | 27   | 33   | 57   | 70   | 55      | 67   |
| Simple Cholera .....        | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...     | ...  |
| Diarrhœa, Dysent:.....      | 452  | 318  | 412  | 144  | 224  | 372  | 275  | 341  | 101  | 231  | 287     | 116  |
| Enteritis .....             | 179  | 101  | 114  | 82   | 84   | 86   | 60   | 79   | 2    | 64   | 85      | 51   |
| Puerperal Fever .....       | 12   | 12   | 20   | 6    | 7    | 10   | 15   | 6    | 10   | 8    | 11      | 7    |
| Erysipelas .....            | 7    | 8    | 12   | 9    | 5    | 8    | 13   | 6    | 6    | 5    | 8       | 9    |
| Other Septic Diseases ...   | 11   | 11   | 11   | 7    | 8    | 11   | 5    | 11   | 9    | 11   | 9       | 9    |
| Phthisis .....              | 395  | 405  | 396  | 380  | 407  | 452  | 331  | 393  | 386  | 383  | 393     | 355  |
| Other Tubercular Diseases   | 178  | 157  | 154  | 159  | 159  | 194  | 206  | 141  | 149  | 161  | 166     | 157  |
| Cancer .....                | 135  | 136  | 155  | 166  | 148  | 137  | 143  | 177  | 168  | 169  | 153     | 189  |
| Bronchitis .....            | 549  | 706  | 517  | 490  | 460  | 485  | 403  | 458  | 481  | 436  | 498     | 530  |
| Pneumonia .....             | 591  | 612  | 423  | 477  | 418  | 418  | 413  | 413  | 516  | 397  | 468     | 533  |
| Pleurisy .....              | 4    | 10   | 12   | 6    | 4    | 7    | 9    | 9    | 17   | 16   | 9       | 8    |
| Other D: Respiratory Org.   | 22   | 23   | 16   | 19   | 19   | 26   | 19   | 26   | 36   | 29   | 23      | 24   |
| Alcoholism .....            | 50   | 90   | 70   | 45   | 48   | 59   | 45   | 43   | 59   | 53   | 56      | 43   |
| Cirrhosis of Liver .....    |      |      |      |      |      |      |      |      |      |      |         |      |
| Venereal Diseases .....     | 19   | 30   | 22   | 16   | 20   | 23   | 28   | 23   | 19   | 26   | 23      | 31   |
| Premature Birth.....        | 172  | 133  | 143  | 166  | 168  | 161  | 149  | 142  | 136  | 128  | 150     | 150  |
| Brain & Nervous Diseases    | 490  | 521  | 428  | 459  | 432  | 393  | 373  | 376  | 377  | 383  | 423     | 382  |
| Urinary Diseases .....      | 100  | 146  | 102  | 103  | 90   | 100  | 92   | 98   | 109  | 102  | 104     | 107  |
| Atrophy and Marasmus...     | 258  | 234  | 204  | 188  | 201  | 162  | 132  | 145  | 147  | 189  | 186     | 117  |
| Dis:& Accid: of Parturition | 18   | 14   | 18   | 20   | 15   | 12   | 19   | 20   | 12   | 11   | 16      | 10   |
| Heart Diseases .....        | 294  | 380  | 339  | 331  | 317  | 376  | 360  | 336  | 369  | 326  | 343     | 317  |
| Accidents .....             | 106  | 118  | 128  | 123  | 119  | 125  | 115  | 117  | 125  | 134  | 121     | 129  |
| Suicides .....              | 13   | 17   | 16   | 14   | 17   | 17   | 25   | 13   | 14   | 26   | 17      | 24   |
| All other causes .....      | 530  | 647  | 523  | 460  | 490  | 523  | 409  | 499  | 498  | 494  | 507     | 524  |



TABLE M. 12,

**Mortality from Special Diseases.—Diminution and Excess.—**

The following table shows the greater or less fatality of disease in 1909, as compared with their simple decennial average numbers in the Borough :—

| Cause of Death.                      | Diminution<br>in 1909. |     | Excess<br>in 1909. |
|--------------------------------------|------------------------|-----|--------------------|
| Small-pox .....                      | —                      | ... | —                  |
| Measles .....                        | —                      | ... | 40                 |
| Scarlet fever .....                  | —                      | ... | 17                 |
| Fevers .....                         | 13                     | ... | --                 |
| Whooping cough.....                  | 60                     | ... | —                  |
| Diphtheria and Membranous Croup..... | —                      | ... | 12                 |
| Diarrhœal diseases .....             | 171                    | ... | —                  |
| Tuberculosis .....                   | 47                     | ... | —                  |
| Premature births .....               | —                      | ... | —                  |
| Brain and nervous diseases .....     | 41                     | ... | —                  |
| Heart diseases.....                  | 26                     | ... | —                  |
| Respiratory diseases .....           | —                      | ... | 97                 |
| Urinary diseases .....               | —                      | ... | 3                  |
| Atrophy and Marasmus .....           | 69                     | ... | —                  |
| All other causes .....               | --                     | ... | 39                 |
|                                      | —                      |     | —                  |
|                                      | 427                    |     | 208                |
|                                      | —                      |     | —                  |
| Balance of diminution .....          | 219                    |     |                    |

TABLE M. 13.

RECORDED DEATH-RATES PER 1,000, AND THE PROPORTION OF  
DEATHS UNDER ONE YEAR OF AGE PER 1,000 BIRTHS,  
IN THE 33 GREAT TOWNS, IN 1909.

| Towns in the order of their Death-Rates.   | Recorded<br>Death-<br>Rate. | Proportion<br>of deaths<br>under one<br>year of age<br>per 1,000<br>births in<br>the 33 great<br>towns of<br>England<br>and Wales. |
|--|-----------------------------|--|
| England and Wales .....                    | 14.5                        | 109  |
| England and Wales less the 219 Towns ..... | 13.6                        | 98   |
| 76 large Towns .....                       | 15.6                        | 118  |
| 143 smaller Towns .....                    | 14.5                        | 111  |
| Croydon .....                              | 11.7                        | 80   |
| Gateshead .....                            | 12.6                        | 113  |
| Bristol .....                              | 12.7                        | 100  |
| Leicester .....                            | 12.9                        | 127  |
| Cardiff .....                              | 13.1                        | 104  |
| Derby .....                                | 13.3                        | 124  |
| Halifax .....                              | 13.8                        | 97   |
| Norwich .....                              | 13.9                        | 119  |
| London .....                               | 14.0                        | 107  |
| West Ham .....                             | 14.0                        | 124  |
| Leeds .....                                | 14.1                        | 121  |
| Portsmouth.....                            | 14.2                        | 95   |
| Plymouth .....                             | 14.5                        | 130  |
| Bradford .....                             | 14.5                        | 116  |
| Newcastle .....                            | 14.8                        | 120  |
| Hull .....                                 | 14.9                        | 114  |
| Bolton .....                               | 15.1                        | 129  |
| Sheffield .....                            | 15.1                        | 118  |
| Brighton .....                             | 15.3                        | 97   |
| Birmingham .....                           | 15.4                        | 134  |
| Preston .....                              | 15.8                        | 136  |
| Birkenhead.....                            | 15.9                        | 124  |
| Wolverhampton .....                        | 16.0                        | 138  |
| Burnley .....                              | 16.1                        | 157  |
| Blackburn .....                            | 16.2                        | 127  |
| Huddersfield .....                         | 16.3                        | 95   |
| Nottingham .....                           | 16.3                        | 150  |
| Sunderland .....                           | 17.0                        | 136  |
| Manchester .....                           | 17.9                        | 134  |
| <b>Salford</b> .....                       | <b>18.0</b>                 | <b>141</b>   |
| Liverpool .....                            | 19.0                        | 144  |
| Oldham .....                               | 19.1                        | 122  |
| Swansea .....                              | 19.4                        | 159  |

TABLE M. 14.

SHOWING THE BIRTH-RATES, ALSO RATES OF MORTALITY FROM ALL CAUSES, FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES, AND FROM PHTHISIS, CANCER, NERVOUS DISEASES, HEART DISEASES, BRONCHITIS, PNEUMONIA, AND THE MARRIAGE RATE, DURING THE YEARS 1878 TO 1909.

| Years.           | Popula-<br>tion. | Rates per 1,000 Population from |                        |  |           |         |                      |                    |             |            | Deaths<br>under<br>One<br>Year<br>to<br>1,000<br>Births. | Marriage<br>Rate. |
|------------------|------------------|---------------------------------|------------------------|--|-----------|---------|----------------------|--------------------|-------------|------------|--|-------------------|
|                  |                  | Births.                         | Deaths,<br>All Causes. | Seven<br>Principal<br>Zymotic<br>Diseases. | Phthisis. | Cancer. | Nervous<br>Diseases. | Heart<br>Diseases. | Bronchitis. | Pneumonia. |  |                   |
| 1878...          | 160,277          | 44·7                            | 27·1                   | 5·4  | 2·7       | 0·5     | 3·5                  | 1·1                | 3·6         | 1·8        | 185  | 17·9              |
| 1879*            | 165,899          | 43·0                            | 26·7                   | 4·2  | 2·9       | 0·4     | 3·7                  | 1·2                | 4·3         | 1·8        | 170  | 15·2              |
| 1880...          | 171,727          | 41·4                            | 27·9                   | 7·4  | 2·7       | 0·4     | 3·2                  | 0·9                | 3·4         | 1·9        | 197  | 16·6              |
| 1881...          | 177,760          | 38·8                            | 22·5                   | 3·0  | 2·5       | 0·5     | 3·1                  | 1·1                | 3·6         | 1·6        | 163  | 16·4              |
| 1882...          | 179,855          | 39·7                            | 23·7                   | 4·0  | 2·4       | 0·4     | 3·6                  | 1·1                | 2·8         | 1·7        | 177  | 16·9              |
| Average 5 years. |                  | 41·5                            | 25·6                   | 4·8  | 2·6       | 0·4     | 3·4                  | 1·1                | 3·5         | 1·8        | 178  | 16·6              |
| 1883...          | 181,951          | 37·3                            | 23·6                   | 3·4  | 2·7       | 0·4     | 3·1                  | 1·2                | 3·0         | 1·7        | 171  | 16·1              |
| 1884 *           | 184,047          | 38·8                            | 24·4                   | 4·4  | 2·6       | 0·5     | 2·9                  | 1·1                | 2·8         | 1·7        | 184  | 16·1              |
| 1885...          | 186,142          | 37·6                            | 23·0                   | 3·6  | 2·6       | 0·5     | 2·9                  | 1·2                | 3·0         | 1·9        | 174  | 16·1              |
| 1886...          | 188,238          | 38·5                            | 24·8                   | 4·1  | 2·6       | 0·5     | 2·8                  | 1·3                | 3·3         | 1·8        | 197  | 15·3              |
| 1887...          | 190,334          | 36·6                            | 25·5                   | 4·9  | 2·3       | 0·5     | 3·2                  | 1·3                | 2·9         | 2·2        | 195  | 15·4              |
| Average 5 years. |                  | 37·8                            | 24·3                   | 4·1  | 2·6       | 0·5     | 3·0                  | 1·2                | 3·0         | 1·9        | 184  | 15·8              |
| 1888...          | 192,429          | 37·1                            | 24·8                   | 3·9  | 2·3       | 0·5     | 3·0                  | 1·1                | 3·0         | 2·1        | 184  | 15·2              |
| 1889...          | 194,525          | 35·9                            | 25·1                   | 5·3  | 1·9       | 0·6     | 2·5                  | 1·3                | 2·6         | 1·9        | 181  | 16·7              |
| 1890*            | 196,621          | 36·1                            | 27·7                   | 4·4  | 2·2       | 0·5     | 2·0                  | 1·3                | 3·4         | 3·8        | 198  | 17·5              |
| 1891...          | 198,775          | 36·3                            | 26·0                   | 3·4  | 2·2       | 0·5     | 2·2                  | 1·1                | 3·7         | 3·0        | 194  | 18·1              |
| 1892...          | 200,833          | 35·8                            | 24·6                   | 4·6  | 1·9       | 0·6     | 2·0                  | 1·2                | 2·6         | 2·9        | 186  | 16·7              |
| Average 5 years. |                  | 36·2                            | 25·6                   | 4·3  | 2·1       | 0·5     | 2·3                  | 1·2                | 3·1         | 2·7        | 189  | 16·8              |
| 1893...          | 203,015          | 34·7                            | 24·1                   | 4·2  | 1·9       | 0·6     | 2·0                  | 1·4                | 2·6         | 2·3        | 211  | 16·2              |
| 1894...          | 205,220          | 34·3                            | 21·1                   | 3·3  | 1·8       | 0·6     | 2·0                  | 1·1                | 1·9         | 2·3        | 174  | 17·1              |
| 1895...          | 207,449          | 35·9                            | 25·6                   | 5·0  | 1·9       | 0·6     | 2·0                  | 1·3                | 2·6         | 2·7        | 229  | 17·4              |
| 1896*            | 209,703          | 35·6                            | 23·1                   | 4·2  | 1·5       | 0·6     | 2·3                  | 1·4                | 2·2         | 2·7        | 200  | 18·1              |
| 1897...          | 211,981          | 35·2                            | 23·9                   | 5·6  | 1·8       | 0·6     | 2·1                  | 1·3                | 2·4         | 2·1        | 219  | 18·6              |
| Average 5 years. |                  | 35·1                            | 23·6                   | 4·5  | 1·8       | 0·6     | 2·1                  | 1·3                | 2·3         | 2·4        | 207  | 17·5              |
| 1898...          | 214,284          | 34·9                            | 22·8                   | 4·2  | 1·8       | 0·8     | 2·2                  | 1·2                | 2·2         | 2·2        | 213  | 18·6              |
| 1899...          | 216,612          | 34·1                            | 23·9                   | 4·4  | 1·8       | 0·6     | 2·3                  | 1·4                | 2·5         | 2·7        | 211  | 18·7              |
| 1900...          | 218,965          | 33·3                            | 25·3                   | 4·1  | 1·8       | 0·6     | 2·4                  | 1·7                | 3·2         | 2·8        | 208  | 17·3              |
| 1901...          | 221,526          | 29·1                            | 21·7                   | 4·2  | 1·8       | 0·7     | 1·9                  | 1·5                | 2·3         | 1·9        | 205  | 17·8              |
| 1902*            | 224,007          | 33·7                            | 19·2                   | 2·6  | 1·7       | 0·7     | 2·0                  | 1·4                | 2·1         | 2·1        | 157  | 18·6              |
| Average 5 years. |                  | 33·0                            | 22·6                   | 3·9  | 1·8       | 0·7     | 2·2                  | 1·4                | 2·5         | 2·3        | 199  | 18·2              |
| 1903...          | 226,480          | 32·2                            | 19·1                   | 2·8  | 1·8       | 0·7     | 1·9                  | 1·4                | 2·0         | 1·8        | 168  | 17·8              |
| 1904...          | 228,983          | 31·7                            | 21·0                   | 4·3  | 2·0       | 0·6     | 1·7                  | 1·6                | 2·1         | 1·8        | 193  | 17·6              |
| 1905...          | 231,514          | 30·9                            | 17·2                   | 2·5  | 1·4       | 0·6     | 1·6                  | 1·6                | 1·7         | 1·8        | 148  | 17·3              |
| 1906...          | 234,077          | 30·2                            | 18·5                   | 3·2  | 1·7       | 0·7     | 1·6                  | 1·4                | 2·0         | 1·8        | 162  | 18·0              |
| 1907...          | 236,670          | 29·4                            | 17·8                   | 2·1  | 1·6       | 0·7     | 1·6                  | 1·6                | 2·0         | 2·2        | 140  | 17·2              |
| Average 5 years. |                  | 30·9                            | 18·7                   | 3·0  | 1·7       | 0·7     | 1·7                  | 1·5                | 2·0         | 1·9        | 162  | 17·6              |
| 1908*            | 239,294          | 29·8                            | 17·9                   | 3·0  | 1·6       | 0·7     | 1·6                  | 1·3                | 1·8         | 1·6        | 153  | 15·0              |
| 1909...          | 241,950          | 28·0                            | 18·0                   | 2·4  | 1·5       | 0·8     | 1·6                  | 1·3                | 2·2         | 2·2        | 141  | 14·8              |

\*In the years 1879, 1884, 1890, 1896, 1902, and 1908, the facts are those registered in 53 instead of 52 weeks ; corrections have therefore been made in calculating the rates.



**TABLE M. 15.**

DEATHS REGISTERED IN THE COUNTY BOROUGH OF SALFORD,  
DURING THE YEAR 1909.

| Age.                | Males. | Females. |
|---------------------|--------|----------|
| Under 1 year... ..  | 552    | 407      |
| 1 to 2 years ... .. | 188    | 160      |
| 2 to 3... ..        | 101    | 64       |
| 3 to 4... ..        | 45     | 41       |
| 4 to 5... ..        | 28     | 30       |
| 5 to 10... ..       | 71     | 73       |
| 10 to 15... ..      | 35     | 36       |
| 15 to 20... ..      | 44     | 27       |
| 20 to 25... ..      | 58     | 41       |
| 25 to 35... ..      | 130    | 109      |
| 35 to 45... ..      | 175    | 141      |
| 45 to 55... ..      | 228    | 208      |
| 55 to 65... ..      | 253    | 289      |
| 65 to 75... ..      | 232    | 305      |
| 75 to 85... ..      | 103    | 146      |
| 85 to 95... ..      | 17     | 31       |
| Over 95... ..       | ...    | 1        |
|                     | 2260   | 2109     |

TABLE M. 16.

MORTALITY.—RATES PER 1,000 OF THE POPULATION.

## SCARLET FEVER.

|                        | 1904.       | 1905.       | 1906.       | 1907.       | 1908.       | Mean.       | 1909.       |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| England and Wales...   | 0·11        | 0·11        | 0·10        | 0·09        | 0·08        | 0·10        | 0·09        |
| 76 Great English Towns | 0·12        | 0·13        | 0·12        | 0·12        | 0·10        | 0·12        | 0·11        |
| London .....           | 0·08        | 0·12        | 0·11        | 0·13        | 0·11        | 0·11        | 0·08        |
| <b>Salford</b> .....   | <b>0·24</b> | <b>0·28</b> | <b>0·19</b> | <b>0·26</b> | <b>0·27</b> | <b>0·25</b> | <b>0·34</b> |

## DIPHTHERIA.

|                        | 1904.       | 1905.       | 1906.       | 1907.       | 1908.       | Mean.       | 1909.       |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| England and Wales ...  | 0·17        | 0·16        | 0·17        | 0·16        | 0·15        | 0·16        | 0·14        |
| 76 Great English Towns | 0·19        | 0·16        | 0·19        | 0·17        | 0·16        | 0·17        | 0·15        |
| London ... .           | 0·16        | 0·12        | 0·15        | 0·16        | 0·15        | 0·15        | 0·12        |
| <b>Salford</b> .....   | <b>0·50</b> | <b>0·35</b> | <b>0·38</b> | <b>0·31</b> | <b>0·51</b> | <b>0·41</b> | <b>0·44</b> |

## WHOOPING COUGH.

|                        | 1904.       | 1905.       | 1906.       | 1907.       | 1908.       | Mean.       | 1909.       |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| England and Wales ...  | 0·34        | 0·25        | 0·23        | 0·29        | 0·27        | 0·28        | 0·20        |
| 76 Great English Towns | 0·40        | 0·29        | 0·28        | 0·35        | 0·29        | 0·32        | 0·24        |
| London .....           | 0·32        | 0·32        | 0·27        | 0·38        | 0·20        | 0·30        | 0·26        |
| <b>Salford</b> .....   | <b>0·61</b> | <b>0·19</b> | <b>0·22</b> | <b>0·60</b> | <b>0·42</b> | <b>0·41</b> | <b>0·19</b> |

## MEASLES.

|                        | 1904.       | 1905.       | 1906.       | 1907.       | 1908.       | Mean.       | 1909.       |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| England and Wales ..   | 0·36        | 0·32        | 0·27        | 0·36        | 0·22        | 0·31        | 0·35        |
| 76 Great English Towns | 0·47        | 0·39        | 0·40        | 0·43        | 0·31        | 0·40        | 0·48        |
| London .....           | 0·49        | 0·36        | 0·41        | 0·38        | 0·31        | 0·39        | 0·48        |
| <b>Salford</b> .....   | <b>1·11</b> | <b>0·31</b> | <b>0·79</b> | <b>0·43</b> | <b>0·69</b> | <b>0·67</b> | <b>0·79</b> |

## DIARRHŒA.

|                        | 1904.       | 1905.       | 1906.       | 1907.       | 1908.       | Mean.       | 1909.       |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| England and Wales ...  | 0·86        | 0·59        | 0·87        | 0·29        | 0·50        | 0·62        | 0·28        |
| 76 Great English Towns | 1·20        | 0·83        | 1·16        | 0·40        | 0·65        | 0·85        | 0·38        |
| London .....           | 0·83        | 0·23        | 0·96        | 0·32        | 0·53        | 0·57        | 0·32        |
| <b>Salford</b> .....   | <b>1·61</b> | <b>1·18</b> | <b>1·46</b> | <b>0·43</b> | <b>0·95</b> | <b>1·13</b> | <b>0·48</b> |





SECTION II.  
INFECTIOUS DISEASES.



## SECTION II.

# INFECTIOUS DISEASES.

---

The total number of cases of infectious disease notified to the Health Department, under the Infectious Diseases Notification Act, for the year 1909 was 2,487, which is 175 more than in the previous year and also 620 above the average for the preceding five years. There were 1,577 cases of scarlet fever, 562 of diphtheria, and 138 of enteric fever. Full details, for comparison of these figures with preceding years, will be found in Table No. I 3. The death rate from the seven zymotics for the year was 2·4 per thousand, compared with 3·0 in 1908, 2·1 in 1907, 3·2 in 1906, and 2·5 in 1905. These figures include the deaths from diarrhœa, measles, and whooping cough, in addition to the notifiable diseases.

Particulars as to sickness from the non-notifiable infectious diseases cannot be given, but the particulars of mortality are as follows :—

|                                 |             |
|---------------------------------|-------------|
| Phthisis .....                  | 355 deaths. |
| Other Tubercular Diseases ..... | 157 „       |
| Measles .....                   | 192 „       |
| Whooping Cough .....            | 47 „        |
| Diarrhœa .....                  | 116 „       |
| Influenza .....                 | 67 „        |

This shows an increase in the deaths from measles, when compared with the figures for 1908, and also a large decrease in whooping cough, diarrhœa and influenza. The accompanying chart shows the weekly incidence of the cases notified, from which it will be seen that the highest number in any one week was 80, which occurred



in the 26th week (June and July), and the lowest number was 20 in the 50th week (December). In 1908 the highest number was 82 in the 48th week, and the lowest 18 in the 27th week.

**Comparison with England and Wales, &c.**—The mortality rates from scarlet fever, diphtheria, whooping cough, measles, and diarrhœa, are given in Table No. M.16, where they are compared with the similar rates for England and Wales, the 76 Great Towns, and London.

**SMALL POX.**

No cases of small pox were notified during the year.

**SCARLET FEVER.**

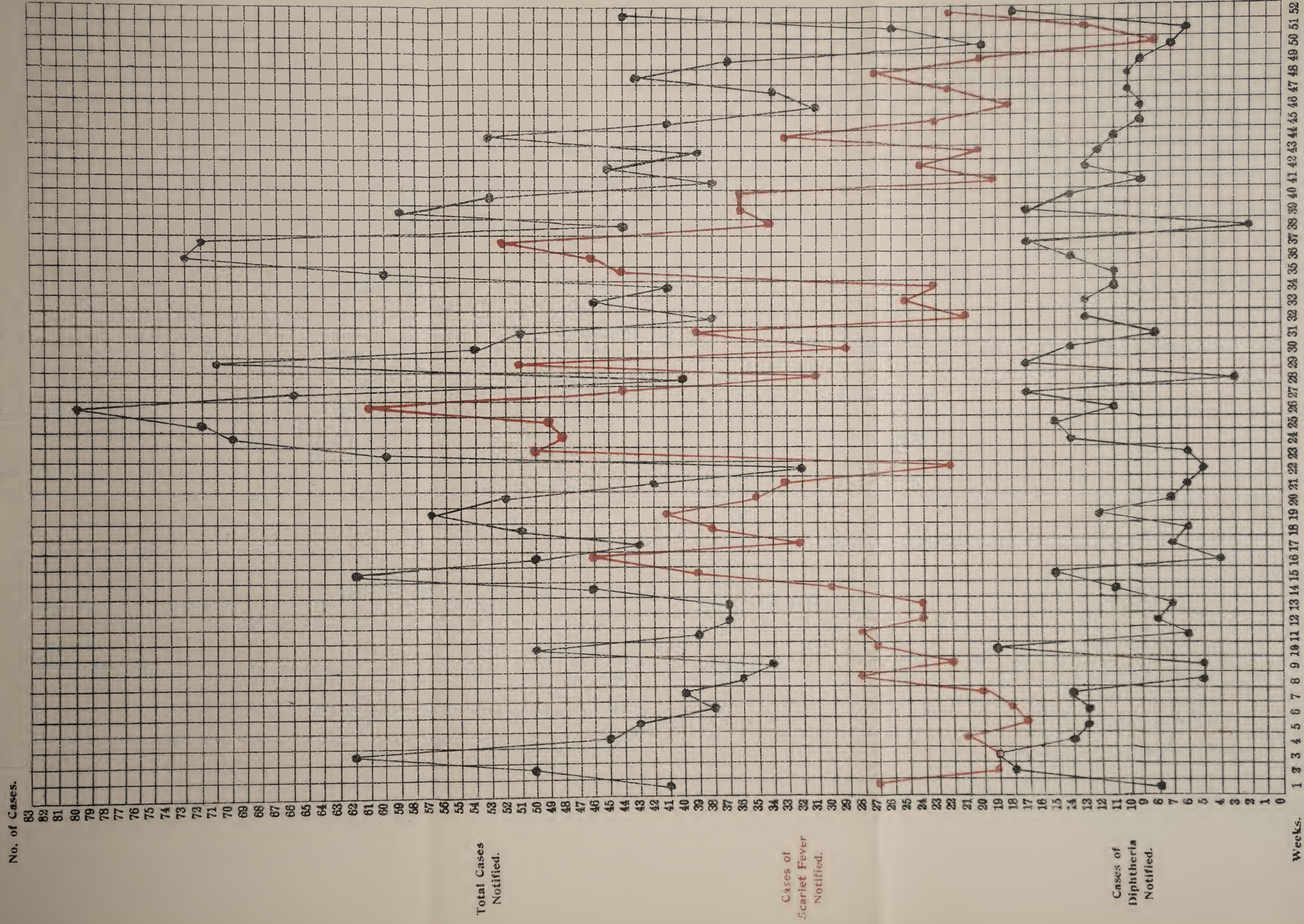
There were 1,577 cases of scarlet fever notified during 1909. This number is 236 more than that for the preceding year and 549 above the average for the preceding five years. The attack rate is therefore 65·2 per 10,000 of the population, as compared with 55·0 for the preceding year.

| AGES.            | CASES. | DEATHS. |             |
|------------------|--------|---------|-------------|
|                  |        | TOTAL.  | PERCENTAGE. |
| Under 1 year ... | 14     | 1       | 7·1         |
| 1 to 5 „ ...     | 485    | 59      | 12·2        |
| 5 to 15 „ ...    | 923    | 19      | 2·0         |
| 15 to 25 „ ...   | 106    | 1       | 0·9         |
| 25 to 65 „ ...   | 48     | 1       | 2·1         |
| Over 65 „ ...    | 1      | 1       | 100·0       |
| TOTAL.....       | 1577   | 82      | 5·2         |



# Notifications of Infectious Disease, 1909.

Showing total number of cases notified, also cases of Scarlet Fever and Diphtheria,  
in each week of the year.









There were 82 deaths, giving a mortality rate of 5·2 per cent. of the cases or 3·4 per 10,000 of the population. The cases were spread over the whole year, as shown on the accompanying chart, being most numerous in the month of July, when there were 216 notifications, and fewest in February, when there were 83 notifications. In respect of age, scarlet fever showed itself to be mainly a disease of youth, 58 per cent. of the cases occurring between the ages of five and fifteen, 10 per cent. were over fifteen years of age, and 32 per cent. were children under five years of age. The mortality, as might be expected, is much the heaviest among the latter, being 12·0 per cent. of the cases, whereas between the ages of five and fifteen and over fifteen the mortality was 2·0 per cent. 1,170 cases, or 74 per cent. of the total were removed to the Ladywell Sanatorium.

### **DIPHTHERIA.**

There were 562 cases of diphtheria notified during 1909, compared with 629 in 1908, and 387 the average for the preceding five years. The attack rate is therefore 23·2 per 10,000, as compared with 26·3 for the preceding year. There were 107 deaths registered from diphtheria, giving a death rate of 19 per cent. of those attacked, compared with a death rate of 20 per cent. in 1908, an average for the preceding five years of 23 per cent., and also a death rate of 4·4 per 10,000 of the population.

| Ages.            | Cases. | Deaths. |             |
|------------------|--------|---------|-------------|
|                  |        | Total.  | Percentage. |
| Under 1 year ... | 11     | 4       | 36·4        |
| 1 to 5 years...  | 234    | 63      | 26·9        |
| 5 to 15 „ ...    | 239    | 39      | 16·3        |
| 15 to 25 „ ...   | 38     | ...     | ...         |
| 25 to 65 „ ...   | 40     | 1       | 2·5         |
| Over 65 „ ...    | ...    | ...     | ...         |
| TOTAL.....       | 562    | 107     | 19·0        |

As shown on the accompanying chart the cases were spread over the whole year, the numbers ranging from 31 in May to 62 in July. With regard to age, 484 cases or 86 per cent. were children under 15 years of age, and 245 cases or 44 per cent. were children under five years of age, the mortality amongst the latter class being very heavy, the deaths reaching the large proportion of 27 per cent. of the cases. During the year 3,008 specimens were forwarded to Professor Delepine for bacteriological examination, 170 from medical practitioners and 2,838 from Ladywell Sanatorium. Where a positive result is obtained, an immediate and distinct advantage is gained by practitioner and patient, as it is usually followed up at once by anti-toxin injections. A negative result is unfortunately not decisive in diphtheria, but the following table will show that the cases giving a negative result were evidently of a less serious character.

|  | Cases. | Mortality. | Percentage. |
|--|--------|------------|-------------|
| Notification of Diphtheria.....  | 562    | 107        | 19·0        |
| Specimens submitted by Medical Practitioner to Bacteriological examination with Positive results ..... | 40     | 3          | 7·5         |
| Specimens submitted by Medical Practitioner to Bacteriological examination with Negative results.....  | 130    | 1          | 0·8         |
| Specimens from Ladywell Hospital.....  | 2838   | ..         | ...         |

Comparing Salford with England and Wales, the 76 Great Towns, and London, the mortality rates per 10,000 living were as follows :—

|                         |   |
|-------------------------|---|
| England and Wales ..... | 1 |
| 76 Great Towns .....    | 1 |
| London .....            | 1 |
| Salford .....           | 4 |

### ENTERIC OR TYPHOID FEVER.

There were 138 cases of enteric fever notified during 1909, which is a decrease of 43 when compared with 1908, and also a decrease of 30 on the average of the preceding five years. This gives an attack rate for the Borough of 5·1 per 10,000 persons living, as compared with 7·6 for the preceding year. There were 39 deaths giving a mortality rate of 28·3 per cent. of the cases or 1·6 per 10,000 of the population.

The cases were most numerous in the month of January when there were 37 notifications, and fewest



in May when there were 2 notifications. With regard to age, the cases were most numerous in the age period 25 to 65 years, the number (63) being 46 per cent. of the total cases.

| AGES.            | CASES | DEATHS. |             |
|------------------|-------|---------|-------------|
|                  |       | TOTAL.  | PERCENTAGE. |
| Under 1 year ... | ...   | ...     | ...         |
| 1 to 5 „ ...     | 10    | 1       | 10·0        |
| 5 to 15 „ ...    | 35    | 6       | 17·2        |
| 15 to 25 „ ...   | 29    | 8       | 27·6        |
| 25 to 65 „ ...   | 63    | 24      | 38·1        |
| Over 65 „ ...    | 1     | ...     | ...         |
| TOTAL.....       | 138   | 39      | 28·3        |

There were 94 cases removed to the Sanatorium, or 68 per cent. of the total cases, as compared with 72 per cent. in 1908, 74 in 1907, 70 in 1906, and 70 in 1905.

### PUERPERAL FEVER.

There were 26 cases of this disease notified during the year. There were 6,778 births during the year, so that the attack rate was 0·4 per cent. Of these cases seven died, giving a mortality rate of 26·9 per cent. of the cases.

### ERYSIPELAS.

There were 182 cases of erysipelas during the year 1909, as against 127 in 1908, 136 in 1907, 142 in 1906, 176 in 1905, 168 in 1904, 161 in 1903, and 164 in 1902.

## MEASLES.

There were 192 deaths from measles during the year, giving a death rate of 8 per 10,000 living. This rate is slightly more than that for last year, which was 7; the numbers for the preceding five years being 1903, 6; 1904, 11; 1905, 3; 1906, 8; and 1907, 4.

An arrangement is in existence with the officials of the Education Committee, who advise the department of every case of this disease coming to their notice. The cases are then visited, and the parents advised as to the precautions to be taken.

Leaflets are issued and distributed by the Health Visitors, pointing out the dangerous character of the disease, and advising as to the precautions to be taken to prevent its spread.

## WHOOPING COUGH.

There were 47 deaths from whooping cough during the year, 46 of which occurred among children under five years of age. The death rate for the Borough was 2 per 10,000 persons living, as compared with 4 for 1908, and 4 the average for the past five years. The death rate for England and Wales was 2 per 10,000, and the average for the 76 great towns was also 2.

## DIARRHŒA.

The death rate from diarrhœa was 5 per 10,000 living, as compared with 9 last year, 4 in 1907, 15 in 1906, 12 in 1905, and 16 in 1904.

## EPIDEMIC INFLUENZA.

Sixty-seven deaths were returned as directly due to this cause.

## PHTHISIS.

There were during the year 355 deaths from phthisis, and 157 deaths from other tubercular diseases, giving a mortality rate of 15 and 6 respectively per 10,000 of the population.

The system of voluntary notification, described in a previous report, has been continued.

Seven hundred and thirty-five cases were notified during the year, as compared with 635 during last year. Of the 735 notifications, 154 were re-notifications of cases already on the books. Most of these are due to re-notification on admission to the Union Hospital at Hope. Of the 581 new cases, 428 were notified to be visited by the Officers of the Department, and 153 were notified on the blue cards, not for visitation. Two-hundred and sixty-one of the cases on the books have died during the year. One hundred and twelve of these deaths occurred among the cases kept under our immediate observation, and the average length of time, from the commencement of the disease to death, so far as could be ascertained by careful inquiry from the patient and friends, was 21 months, the shortest time being one month, and the longest eight years. The true duration of the disease is obviously longer than the time stated, as the patient would certainly suffer from the disease some time before becoming aware of the fact; but this period of invasion is so indefinite and variable that no reasonable approximation to its duration can be made.



The mean age at death of patients dying during the year from pulmonary phthisis was—males, 38 years ; females, 33 years. From tuberculosis, other than pulmonary phthisis—males, 9 years ; females, 7 years.

From Table A the age and sex distribution of cases and deaths, among those notified, is readily seen. The most noticeable facts are the much greater incidence among males than females, and the advanced age at which many cases commence.

Table B gives the occupation of the cases notified, so far as could be ascertained.

## AGE AND SEX DISTRIBUTION OF CASES OF PHTHISIS NOTIFIED.

TABLE A.

|                   | Males. |         | Females. |         | Totals. |         |
|-------------------|--------|---------|----------|---------|---------|---------|
|                   | No.    | Deaths. | No.      | Deaths. | No.     | Deaths. |
| Under 10 years .. | 18     | 2       | 19       | 5       | 37      | 7       |
| 10 to 20 „ ..     | 32     | 11      | 33       | 10      | 65      | 21      |
| 20 to 30 „ ..     | 69     | 21      | 57       | 13      | 126     | 34      |
| 30 to 40 „ ..     | 103    | 24      | 41       | 12      | 144     | 36      |
| 40 to 50 „ ..     | 88     | 28      | 25       | 12      | 113     | 40      |
| 50 to 60 „ ..     | 43     | 13      | 17       | 8       | 60      | 21      |
| Over 60 . „ ..    | 27     | 11      | 9        | 2       | 36      | 13      |
| TOTALS .....      | 380    | 110     | 201      | 62      | 581     | 172     |

TABLE B.  
OCCUPATIONS OF THE 581 CASES NOTIFIED.

MALES.

OUTDOOR WORKERS.

|  |     |                           |     |
|--|-----|---------------------------|-----|
| 1. Building Trades .....               | 3   | 6. Travellers .....       | 5   |
| 2. Railway Employees....               | 4   | 7. Other Outdoor Workers. | 30  |
| 3. Carters, Coachmen,<br>Hawkers ..... | 20  |                           | —   |
| 4. Labourers and Navvies .             | 115 | Total .....               | 183 |
| 5 Seamen .....                         | 6   |                           | —   |

INDOOR WORKERS.

|                                       |    |  |     |
|---------------------------------------|----|--|-----|
| 1. Employees in Cotton<br>Mills ..... | 10 | 9. Printers .....                                    | 5   |
| 2. Colliers .....                     | 8  | 10. Joiners and Woodworkers                          | 10  |
| 3. Metal Workers .....                | 38 | 11. Beer Retailers and<br>Brewers' Men .....         | 6   |
| 4. Clerks and Warehouse-<br>men ..... | 22 | 12. Dyers .....                                      | 4   |
| 5. Painters and Plasterers .          | 5  | 13. Other Indoor Workers..                           | 33  |
| 6. Plumbers .....                     | 2  | 14. No occupation stated,<br>including children .... | 34  |
| 7. Tailors .....                      | 8  | Total.....   | 188 |
| 8. Hairdressers .....                 | 3  |  | —   |

FEMALES.

|                      |    |  |     |
|----------------------|----|--|-----|
| 1. Housewives .....  | 94 | 13. Hawkers .....                                  | 3   |
| 2. Charwomen .....   | 12 | 14. Makers of Wearing<br>Apparel .....             | 7   |
| 3. Laundresses ..... | 5  | 15. Machinists .....                               | 3   |
| 4. Weavers .....     | 5  | 16. Seamstress .....                               | 1   |
| 5. Winders .....     | 2  | 17. Cigarette Maker .....                          | 1   |
| 6. Spinners .....    | 1  | 18. Other Occupations ....                         | 9   |
| 7. Reelers .....     | 4  | 19. No Occupation stated,<br>including children .. | 44  |
| 8. Hookers .....     | 3  |  | —   |
| 9. Tenters .....     | 2  | Total .....  | 210 |
| 10. Feeders.....     | 1  |  | —   |
| 11. Mill Hands ...   | 6  |  |     |
| 12. Servants .....   | 7  |  |     |

TABLE C.

DURATION OF THE DISEASE IN CASES VISITED AT THE  
TIME OF NOTIFICATION AND DEATH.

|                               | When<br>Notified. | At<br>Death. |
|-------------------------------|-------------------|--------------|
| Under six months .....        | 137               | 18           |
| Over 6 months to 1 year ..... | 49                | 25           |
| „ 1 year to 18 months .....   | 49                | 19           |
| „ 18 months to 2 years .....  | 8                 | 10           |
| „ 2 years to 3 years .....    | 40                | 16           |
| „ 3 years .....               | 45                | 24           |
|                               | 328               | 112          |

The following particulars were obtained from the various medical practitioners, who had notified cases that were not to be visited by the officials of this Department, on the expiry of 12 months from the date of notification.

|   |    |
|---|----|
| No longer under the Doctor's care ..... | 23 |
| Improving (one considered cured) .....  | 9  |
| Disease progressing .....               | 10 |
| Removed from Salford .....              | 7  |
| Dead .....                              | 12 |
| No reply to inquiries .....             | 6  |
|   | —  |
|   | 67 |
|   | —  |



A. Under the Public Health (Tuberculosis) Regulations of 1908, <sup>200</sup>272 cases have been notified by the Poor Law Medical Officers, and 66 of these were re-notifications from Hope Hospital.

B. The Health Committee have arranged for the retention of five beds for Salford patients at Delamere Hospital, for which they pay an annual subsidy of £273. Selected cases are submitted to the Hospital Staff for approval, and only those that appear likely to receive special benefit are sent to this Institution.

CASES SUBMITTED TO THE HOSPITAL STAFF FOR  
REMOVAL TO DELAMERE.

|  |    |
|--|----|
| No. of Cases submitted for examination | 26 |
| „ approved                             | 16 |
| „ sent to Delamere                     | 13 |

Three of the approved cases are waiting for vacant beds.

The following are the particulars of the cases sent to Delamere, with a statement as to their present condition—

SALFORD CASES TREATED IN DELAMERE.

| Initials. | Age. | Date of Admission. | Date of Discharge.   | Present Condition.          | Remarks. |
|-----------|------|--------------------|----------------------|-----------------------------|----------|
| B.H.      | 17   | 31st March, 1908   | 4th August, 1908     | Excellent ..                |          |
| A.B.      | 7    | 31st March, 1908   | September 15th, 1908 | In good health but thinner. |          |
| S.L.      | 29   | 31st March, 1908   | August 4th, 1908     | Removed ..                  |          |
| T.M.      | 18   | 31st March, 1908   | June 2nd, 1908       | Died June 18th, 1908        |          |

SALFORD CASES TREATED IN DELAMERE.—*Continued.*

| Initials. | Age. | Date of Admission. | Date of Discharge. | Present Condition.        | Remarks.  |
|-----------|------|--------------------|--------------------|---------------------------|---|
| R.M.      | 29   | 31st March, 1908   | May 12th ..        | Good .....                |   |
| C.O.      | 16   | June 9th, 1908     | August 4th, 1908   | Good .....                |   |
| S.C.      | 10   | July 7th, 1908     | Dec. 1st, 1908     | Growing rapidly. thinner. |   |
| J.B.      | 19   | July 21st, 1908    | Aug. 18th, 1908    | Died Dec. 23rd, 1908      |   |
| B.H.      | 14   | Aug. 11th, 1908    | Dec. 1st, 1908     | Good .....                |   |
| M.N.      | 32   | July 28th, 1908    | Dec. 1st, 1908     | Excellent ..              |   |
| A.E.      | 34   | Sept. 9th, 1908    | Dec. 8th, 1908     | Removed ..                |   |
| W.D.      | 31   | Aug. 4th, 1908     | Dec. 22nd, 1908    | Unsatisfactory.           |   |
| W.P.      | 18   | Aug. 25th, 1908    | March 7th, 1909    | Excellent ..              | Was in 28 weeks and gained 6 lbs. 15 oz. Has been declared practically free from germs of disease.  |
| R.S.      | 21   | Dec. 15th, 1908    | June 29th, 1909    | Dead .....                | Was in 28 weeks and gained 22½ lbs. When visited a fortnight after his discharge had lost 1½ lbs. Has steadily declined, and died 1st January, 1910, of Turbec. Larynx. |
| A.B.      | 28   | Dec. 15th, 1908    | Jan. 26th, 1909    | Dead .....                | In 6 weeks, and gained 5½ lbs. Was discharged as not likely to improve. Died October 9th, 1909.   |
| J. A. F.  | 41   | Dec. 22nd, 1908    | Jan. 19th, 1909    | Looks well .              | Was in 4 weeks, and gained 3½ lbs. Was obliged to come home for family reasons.   |
| J. F.     | 9    | Feb. 2nd, 1909     | March 2nd, 1909    | Good .....                | Was in 4 weeks, and gained 7 lbs. Is able to go to school.  |

SALFORD CASES TREATED IN DELAMREE.—*Continued.*

| Initials. | Age. | Date of Admission. | Date of Discharge. | Present Condition.    | Remarks.  |
|-----------|------|--------------------|--------------------|-----------------------|---|
| E. C.     | 26   | Feb. 9th, 1909     | July 6th, 1909     | Good . . . . .        | Was in 21 weeks, and gained 18 lbs. Is looking exceedingly well. Fit to return to work. Left Salford and went to Ireland in August, 1909.       |
| R. G.     | 31   | Feb. 9th, 1909     | May 18th, 1909     | Not very satisfactory | Was in 14 weeks, and gained 13 lbs. Not looking very well when last visited. Her cough is troubling her, and she is expecting confinement soon. |
| L. R.     | 9    | Feb. 23rd, 1909    | Aug. 17th, 1909    | Satisfactory.         | Was in 25 weeks, and gained 14 lbs. 15 ozs. Was seen 10 days after return and had then gained another 11 ozs. Is fit for school.                |
| J. P.     | 20   | April 13th, 1909   | Aug. 3rd, 1909     | Dead . . . . .        | Was in 16 weeks, and gained 16 lbs. When seen in December had lost 10 lbs. Died 30th January, 1910.   |
| L. S.     | 20   | June 15th, 1909    | Sept. 14th, 1909   | Satisfactory.         | Was in 13 weeks, and gained 14 lbs. Is looking and feeling very well. Still has a cough.  |
| E. B.     | 14   | July 6th, 1909     | Oct. 5th, 1909     | Unsatisfactory        | Was in 13 weeks, and gained 13 lbs. When seen a month after her discharge she had lost 3 lbs., and cough very bad.                              |
| M. H.     | 16   | July 13th, 1909    | Sept. 21st, 1909   | Satisfactory.         | Was in 10 weeks, and gained 18 lbs. 15 ozs. Left by her own desire. Was at work when visited in November.                                       |
| J.E.O'D.  | 21   | July 20th, 1909    | Jan. 15th, 1910    | Very satisfactory     | Was in 26 weeks, and gained 18 lbs. Is able to go to work again.  |
| L. K.     | 36   | Aug. 17th, 1909    | Jan. 8th, 1910     | . . . . .             | Was in 21 weeks, and gained 10 lbs. Did not return to Salford.  |
| J. L.     | 34   | Aug. 31st, 1909    | Jan. 29th, 1910    | Excellent . .         | Was in nearly 22 weeks, and gained 9 lbs. Has been discharged as cured.   |
| E. S.     | 13   | Nov. 2nd, 1909     | . . . . .          | . . . . .             | In Delamere at present.   |
| I. B.     | 10   | Nov. 2nd, 1909     | . . . . .          | . . . . .             | In Delamere at present.   |



AGE AND SEX DISTRIBUTION OF DEATHS FROM  
PHTHISIS IN 1909.

| AGE.           | MALE. | FEMALE. | TOTAL. |
|----------------|-------|---------|--------|
| Under 10 years | 10    | 12      | 22     |
| 10—20     ,,   | 14    | 13      | 27     |
| 20—30     ,,   | 32    | 36      | 68     |
| 30—40     ,,   | 54    | 32      | 86     |
| 40—50     ,    | 53    | 23      | 76     |
| 50—60     ,,   | 35    | 16      | 51     |
| Over 60     ,, | 17    | 8       | 25     |
| Totals . . . . | 215   | 140     | 355    |

AGE AND SEX DISTRIBUTION OF DEATHS FROM  
TUBERCULOSIS OTHER THAN PHTHISIS IN 1909.

| AGE.           | MALE. | FEMALE. | TOTAL. |
|----------------|-------|---------|--------|
| Under 10 years | 62    | 49      | 111    |
| 10—20     ,,   | 8     | 15      | 23     |
| 20—30     ,,   | 8     | 3       | 11     |
| 30—40     ,,   | ..    | 5       | 5      |
| 40—50     ,,   | 4     | ..      | 4      |
| 50—60     ,,   | 1     | 1       | 2      |
| Over 60     ,, | 1     | ..      | 1      |
| Totals . . . . | 84    | 73      | 157    |

### **TUBERCULOSIS IN MILK.**

During the year 175 samples of milk and 12 samples of cream were examined and reported on by Professor Delepine for tuberculosis, 128 samples of milk were obtained from farmers' cans at the railway stations, 45 at farms outside the Borough, and 2 at farms inside the Borough. Of the 12 samples of cream 10 were obtained at dairies in the Borough and 2 at a creamery. Of the 128 samples of milk 13 or 10 per cent. were tuberculous. Of the 45 farm samples 8 or 18 per cent. were tuberculous. The remaining 2 samples were returned as non-tuberculous. Of the 12 samples of cream 4 or 33 per cent. were tuberculous. All the farms supplying tuberculous milk were visited by the Veterinary Inspector.

### **MEASURES TAKEN TO PREVENT THE SPREAD OF INFECTIOUS DISEASE.**

**Isolation.**—Out of the total, 2,487 cases of infectious disease notified during the year, 1,758, or 71 per cent., were removed to the Ladywell Sanatorium, and there isolated.

**Disinfection.**—All infected bedding has been stoved in the steam disinfecter.

During the year 6 public and 2 private schools were disinfected, in consequence of the prevalence of scarlet fever and measles.

**Bacteriology.**—402 specimens in suspected cases of enteric fever, diphtheria, and phthisis have been sent to Professor Delepine, of the Owens College, for examination and the following is the result of the work done during the year 1909 :—

ENTERIC FEVER.—114 examinations made, positive reactions obtained 30, or 26·3 per cent.

DIPHTHERIA.—170 examinations made, and the specific baccilli were found in 40 cases, or 23·5 per cent.

LADYWELL HOSPITAL.—2,838 examinations for diphtheria were made, 621 positive, and 2,217 negative.

PHTHISIS.—118 tests were made, and tubercle baccilli were found in 36 cases, or 30·5 per cent.

**School attendance** has been regulated in the manner described in Part III. of this report.

**Library books** from infected homes are either disinfected or retained for the use of the patients in the hospital.



TABLE I I.  
CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1909.

| NOTIFIABLE DISEASES.                   | CASES NOTIFIED IN WHOLE DISTRICT. |                |         |          |           |           | TOTAL CASES NOTIFIED IN EACH WARD. |          |         |              |            |               |          |           |            |         |         |           |              |             |             |          |        |       |
|--|-----------------------------------|----------------|---------|----------|-----------|-----------|------------------------------------|----------|---------|--------------|------------|---------------|----------|-----------|------------|---------|---------|-----------|--------------|-------------|-------------|----------|--------|-------|
|  | At All Ages.                      | At Ages—Years. |         |          |           |           |                                    | Borough. | Kensal. | Albert Park. | Grosvenor. | St. Matthias. | Trinity. | Crescent. | Islington. | Regent. | Ordall. | Trafford. | Charlestown. | St. Thomas. | St. Paul's. | Seedley. | Waste. | Hope. |
|  |                                   | Under 1.       | 1 to 5. | 5 to 15. | 15 to 25. | 25 to 65. | 65 and upwards.                    |          |         |              |            |               |          |           |            |         |         |           |              |             |             |          |        |       |
| Small-pox . . . . .                    | ..                                | ..             | ..      | ..       | ..        | ..        | ..                                 | ..       | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |
| Cholera . . . . .                      | ..                                | ..             | ..      | ..       | ..        | ..        | ..                                 | ..       | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |
| Diphtheria(including Membranous croup) | 562                               | 11             | 234     | 239      | 38        | 40        | ..                                 | 562      | 31      | 34           | 24         | 14            | 17       | 36        | 23         | 41      | 25      | 22        | 73           | 24          | 45          | 63       | 49     | 41    |
| Erysipelas.....                        | 182                               | 8              | 8       | 21       | 19        | 109       | 17                                 | 182      | 6       | 7            | 7          | 6             | 9        | 10        | 10         | 16      | 22      | 5         | 13           | 5           | 16          | 14       | 12     | 24    |
| Scarlet fever . . . . .                | 1577                              | 14             | 485     | 923      | 610       | 48        | 1                                  | 1577     | 125     | 100          | 61         | 69            | 37       | 48        | 50         | 103     | 81      | 54        | 194          | 47          | 112         | 162      | 118    | 216   |
| Typhus fever . . . . .                 | ..                                | ..             | ..      | ..       | ..        | ..        | ..                                 | ..       | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |
| Enteric fever . . . . .                | 138                               | ..             | 10      | 35       | 29        | 63        | 1                                  | 138      | 6       | 8            | 13         | 3             | 4        | 17        | 9          | 9       | 7       | 9         | 6            | 3           | 3           | 11       | 10     | 20    |
| Relapsing fever . . . .                | ..                                | ..             | ..      | ..       | ..        | ..        | ..                                 | ..       | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |
| Continued fever . . . .                | 2                                 | ..             | ..      | 1        | ..        | 1         | ..                                 | 2        | ..      | 1            | ..         | ..            | 1        | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |
| Puerperal fever . . . .                | 26                                | ..             | ..      | ..       | 8         | 18        | ..                                 | 26       | ..      | 1            | 2          | 1             | 3        | 1         | ..         | 5       | 2       | 2         | ..           | ..          | ..          | 3        | 1      | 5     |
| Plague . . . . .                       | ..                                | ..             | ..      | ..       | ..        | ..        | ..                                 | ..       | ..      | ..           | ..         | ..            | ..       | ..        | ..         | ..      | ..      | ..        | ..           | ..          | ..          | ..       | ..     | ..    |
| Totals . . . . .                       | 2487                              | 33             | 737     | 1219     | 200       | 279       | 19                                 | 2487     | 118     | 151          | 107        | 93            | 71       | 112       | 92         | 174     | 137     | 92        | 286          | 79          | 176         | 253      | 190    | 306   |

TABLE 12.

CASES OF INFECTIOUS DISEASE FROM EACH WARD REMOVED TO HOSPITAL.

| NOTIFIABLE DISEASE.                  | Borough.    | Kersal.   | Albert Park. | Grosvenor. | St. Matthias. | Trinity.  | Crescent. | Islington. | Regent.    | Ordall.   | Trafford. | Charlestown. | St. Thomas. | St. Paul's. | Seedley.   | Waste.     | Hope.      |
|--------------------------------------|-------------|-----------|--------------|------------|---------------|-----------|-----------|------------|------------|-----------|-----------|--------------|-------------|-------------|------------|------------|------------|
| Small-pox .....                      | ..          | ..        | ..           | ..         | ..            | ..        | ..        | ..         | ..         | ..        | ..        | ..           | ..          | ..          | ..         | ..         | ..         |
| Cholera .....                        | ..          | ..        | ..           | ..         | ..            | ..        | ..        | ..         | ..         | ..        | ..        | ..           | ..          | ..          | ..         | ..         | ..         |
| Diphtheria (including Mem'ous croup) | 448         | 16        | 22           | 21         | 13            | 14        | 31        | 21         | 33         | 24        | 20        | 65           | 17          | 36          | 47         | 37         | 31         |
| Erysipelas.....                      | 31          | ..        | ..           | 1          | 2             | 2         | 5         | 1          | 2          | 3         | ..        | 1            | 1           | 1           | ..         | 5          | 7          |
| Scarlet Fever.....                   | 1170        | 73        | 75           | 47         | 58            | 33        | 33        | 40         | 85         | 64        | 42        | 170          | 35          | 94          | 104        | 83         | 134        |
| Typhus fever .....                   | ..          | ..        | ..           | ..         | ..            | ..        | ..        | ..         | ..         | ..        | ..        | ..           | ..          | ..          | ..         | ..         | ..         |
| Enteric fever .....                  | 94          | 1         | 6            | 11         | 1             | 3         | 13        | 5          | 7          | 6         | 7         | 6            | 1           | 1           | 7          | 4          | 15         |
| Relapsing fever .....                | ..          | ..        | ..           | ..         | ..            | ..        | ..        | ..         | ..         | ..        | ..        | ..           | ..          | ..          | ..         | ..         | ..         |
| Continued fever .....                | 1           | ..        | ..           | ..         | ..            | 1         | ..        | ..         | ..         | ..        | ..        | ..           | ..          | ..          | ..         | ..         | ..         |
| Puerperal fever .....                | 14          | ..        | 1            | ..         | 1             | 1         | ..        | ..         | 4          | 1         | 1         | ..           | ..          | ..          | 2          | ..         | 3          |
| Plague .....                         | ..          | ..        | ..           | ..         | ..            | ..        | ..        | ..         | ..         | ..        | ..        | ..           | ..          | ..          | ..         | ..         | ..         |
| <b>Totals .....</b>                  | <b>1758</b> | <b>90</b> | <b>104</b>   | <b>80</b>  | <b>75</b>     | <b>54</b> | <b>82</b> | <b>67</b>  | <b>131</b> | <b>98</b> | <b>70</b> | <b>242</b>   | <b>54</b>   | <b>132</b>  | <b>160</b> | <b>129</b> | <b>190</b> |

**TABLE I 3.**

SHOWING THE NUMBER OF CASES OF INFECTIOUS DISEASE NOTIFIED  
TO THE HEALTH DEPARTMENT DURING THE YEARS 1883 TO 1909.

| YEAR.           | Small-Pox. | Scarlet Fever. | Diphtheria. | FEVER.   |         |            |            | Erysipelas. | Total. |
|-----------------|------------|----------------|-------------|----------|---------|------------|------------|-------------|--------|
|                 |            |                |             | Enteric. | Typhus. | Continued. | Puerperal. |             |        |
| 1883 .....      | 6          | 805            | 81          | 293      | 14      | ...        | 21         | ...         | 1220   |
| 1884 .....      | 5          | 1154           | 99          | 422      | 35      | ...        | 14         | ...         | 1729   |
| 1885 .....      | 11         | 632            | 54          | 205      | 32      | ...        | 15         | ...         | 949    |
| 1886 .....      | ...        | 1536           | 41          | 288      | 5       | ...        | 12         | ...         | 1882   |
| 1887 .....      | 4          | 1427           | 83          | 368      | 7       | ...        | 11         | ...         | 1900   |
| Average 5 years | 5          | 1111           | 72          | 315      | 19      | ...        | 15         | ...         | 1537   |
| 1888 .....      | 52         | 1128           | 175         | 572      | 31      | ...        | 26         | ...         | 1984   |
| 1889 .....      | ...        | 1283           | 691         | 485      | 3       | ...        | 14         | ...         | 2476   |
| 1890 .....      | ...        | 985            | 704         | 383      | 6       | 4          | 22         | 76          | 2180   |
| 1891 .....      | ...        | 483            | 231         | 377      | 1       | 6          | 13         | 53          | 1164   |
| 1892 .....      | 7          | 865            | 231         | 347      | 5       | 5          | 26         | 86          | 1572   |
| Average 5 years | 12         | 948            | 406         | 433      | 9       | 3          | 20         | 43          | 1874   |
| 1893 .....      | 168        | 865            | 261         | 563      | 5       | 12         | 30         | 147         | 2051   |
| 1894 .....      | 35         | 1043           | 242         | 316      | 1       | 14         | 21         | 130         | 1802   |
| 1895 .....      | 4          | 1167           | 194         | 382      | ...     | 11         | 19         | 111         | 1888   |
| 1896 .....      | 2          | 1579           | 158         | 291      | 7       | 12         | 24         | 114         | 2187   |
| 1897 .....      | ...        | 714            | 103         | 291      | ...     | 14         | 13         | 121         | 1256   |
| Average 5 years | 42         | 1074           | 192         | 369      | 3       | 13         | 21         | 125         | 1836   |
| 1898 .....      | ...        | 659            | 97          | 367      | 16      | 14         | 31         | 146         | 1330   |
| 1899 .....      | ...        | 723            | 184         | 273      | 3       | 20         | 26         | 153         | 1382   |
| 1900 .....      | 6          | 1317           | 309         | 335      | 2       | 8          | 21         | 179         | 2177   |
| 1901 .....      | ...        | 1320           | 420         | 317      | 1       | 8          | 33         | 230         | 2329   |
| 1902 .....      | 23         | 780            | 292         | 207      | 43      | 6          | 16         | 164         | 1531   |
| Average 5 years | 6          | 960            | 260         | 300      | 13      | 11         | 25         | 174         | 1750   |
| 1903 .....      | 175        | 737            | 335         | 178      | ...     | 1          | 13         | 161         | 1600   |
| 1904 .....      | 57         | 1043           | 422         | 202      | 10      | 7          | 21         | 168         | 1930   |
| 1905 .....      | 3          | 960            | 363         | 142      | ...     | 7          | 26         | 176         | 1677   |
| 1906 .....      | ...        | 904            | 432         | 225      | ...     | 1          | 21         | 142         | 1725   |
| 1907 .....      | 8          | 1044           | 384         | 92       | ...     | 5          | 23         | 136         | 1692   |
| Average 5 years | 49         | 938            | 387         | 168      | 2       | 4          | 21         | 157         | 1725   |
| 1908 .....      | ...        | 1341           | 629         | 181      | ...     | 7          | 27         | 127         | 2312   |
| 1909 .....      | ...        | 1577           | 562         | 138      | ...     | 2          | 26         | 182         | 2487   |



**TABLE 14.**

SHEWING THE NUMBER OF CASES OF SICKNESS, AND THE DEATHS  
REGISTERED IN SALFORD, DURING THE SEVERAL  
MONTHS OF THE YEAR 1909.

| Months.       | Small-Pox. |         | Scarlet Fever. |         | Diphtheria and Memb. Croup. |         | Typhoid Fever. |         | Puerperal Fever. |         | Typhus Fever. |         |
|---------------|------------|---------|----------------|---------|-----------------------------|---------|----------------|---------|------------------|---------|---------------|---------|
|               | Cases.     | Deaths. | Cases.         | Deaths. | Cases.                      | Deaths. | Cases.         | Deaths. | Cases.           | Deaths. | Cases.        | Deaths. |
| January ..... | ..         | ...     | 86             | 6       | 59                          | 10      | 37             | 13      | 2                | ...     | ...           | ...     |
| February ...  | ...        | ...     | 83             | 2       | 45                          | 14      | 15             | 5       | 3                | 2       | ...           | ...     |
| March .....   | ...        | ...     | 101            | 8       | 38                          | 8       | 9              | 2       | 2                | ...     | ...           | ...     |
| April .....   | ...        | ...     | 171            | 5       | 44                          | 6       | 9              | 3       | 1                | ...     | ...           | ...     |
| May ..        | ...        | ...     | 147            | 8       | 31                          | 7       | 2              | ...     | 2                | 1       | ...           | ...     |
| June .....    | ...        | ...     | 167            | 14      | 40                          | 9       | 7              | 1       | 1                | ...     | ...           | ...     |
| July .....    | ...        | ...     | 216            | 8       | 62                          | 7       | 17             | 4       | 1                | ...     | ...           | ...     |
| August ...    | ...        | ...     | 108            | 3       | 45                          | 10      | 7              | 3       | 1                | 1       | ...           | ...     |
| September ... | ...        | ...     | 213            | 12      | 61                          | 5       | 10             | 4       | 3                | ...     | ...           | ...     |
| October ..... | ..         | ...     | 99             | 7       | 48                          | 13      | 13             | ...     | ...              | 1       | ...           | ...     |
| November ...  | ...        | ...     | 96             | 2       | 39                          | 8       | 5              | 2       | 2                | ...     | ...           | ...     |
| December ...  | ...        | ...     | 90             | 7       | 50                          | 10      | 7              | 2       | 8                | 2       | ...           | ...     |
| Totals...     | ...        | ...     | 1577           | 82      | 562                         | 107     | 138            | 39      | 26               | 7       | ...           | ...     |

TABLE 15.  
SALFORD CASES TREATED IN THE CORPORATION HOSPITALS.

|   | 1900               |         | 1901               |         | 1902               |         | 1903               |         | 1904               |         | 1905               |         | 1906               |         | 1907               |         | 1908               |         | 1909               |         |
|---|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|
|   | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. |
| Small Pox .....                           | 4                  | 1       | ...                | ...     | 22                 | ...     | 165                | 6       | 54                 | 2       | 3                  | ...     | ...                | ...     | 8                  | ...     | ...                | ...     | ...                | ...     |
| Scarlet Fever .....                       | 1012               | 81      | 979                | 85      | 588                | 45      | 592                | 41      | 797                | 45      | 767                | 55      | 695                | 39      | 818                | 50      | 1040               | 62      | 1195               | 70      |
| Diphtheria .....                          | 133                | 36      | 239                | 73      | 151                | 30      | 207                | 43      | 277                | 67      | 236                | 58      | 279                | 59      | 269                | 44      | 378                | 88      | 450                | 86      |
| Typhus Fever .....                        | 1                  | 1       | 1                  | 1       | 39                 | 12      | ...                | ...     | 7                  | 4       | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     |
| Typhoid Fever.....                        | 178                | 42      | 166                | 46      | 119                | 29      | 107                | 33      | 129                | 37      | 99                 | 32      | 147                | 29      | 61                 | 20      | 119                | 34      | 97                 | 27      |
| Continued Fever ...                       | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     |
| Puerperal Fever ...                       | 7                  | 1       | 11                 | 3       | 5                  | 1       | 5                  | 2       | 6                  | 3       | 11                 | 3       | 13                 | 4       | 13                 | 4       | 15                 | 8       | 14                 | 3       |
| Erysipelas .....                          | 16                 | 2       | 29                 | 2       | 34                 | 4       | 30                 | 2       | 34                 | 4       | 48                 | 6       | 40                 | 4       | 30                 | 4       | 24                 | 1       | 31                 | 6       |
| *Ill-defined or all<br>other Diseases ... | 74                 | 12      | 77                 | 8       | 203                | 9       | 51                 | 1       | 87                 | 3       | 77                 | ...     | 82                 | 8       | 81                 | 10      | 176                | 9       | 30                 | ...     |
| Total .....                               | 1425               | 176     | 1502               | 218     | 1161               | 130     | 1157               | 128     | 1391               | 165     | 1241               | 154     | 1256               | 143     | 1280               | 132     | 1752               | 202     | 1817               | 192     |

\*The Ill-defined cases include the Nursing Staff who may have been ill.

TABLE 16.

CASES FROM OUT-DISTRICTS TREATED IN THE CORPORATION HOSPITALS.

|                     | 1900               |         | 1901               |         | 1902               |         | 1903               |         | 1904               |         | 1905               |         | 1906               |         | 1907               |         | 1908               |         | 1909               |         |
|---------------------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|
|                     | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. | Cases<br>Admitted. | Deaths. |
| Small Pox .....     | ...                | ...     | ...                | ...     | 8                  | ...     | 28                 | 5       | 7                  | 1       | 2                  | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | Deaths. |
| Scarlet Fever ..... | 316                | 24      | 377                | 26      | 462                | 29      | 204                | 9       | 198                | 9       | 175                | 10      | 163                | 5       | 180                | 10      | 196                | 9       | 298                | 16      |
| Diphtheria .....    | 161                | 37      | 166                | 33      | 180                | 32      | 133                | 26      | 83                 | 13      | 42                 | 8       | 44                 | 8       | 44                 | 7       | 45                 | 6       | 70                 | 11      |
| Typhus Fever .....  | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ..      | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     |
| Typhoid Fever ...   | 38                 | 13      | 70                 | 22      | 52                 | 9       | 21                 | 7       | 32                 | 6       | 21                 | 8       | 26                 | 1       | 38                 | 4       | 33                 | 10      | 44                 | 11      |
| Continued Fever ... | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     | ...                | ...     |
| Puerperal Fever ... | 2                  | 2       | 1                  | 1       | 1                  | 1       | 1                  | ...     | 1                  | ...     | 1                  | ...     | 1                  | ...     | 2                  | 1       | 2                  | ...     | 3                  | 1       |
| Erysipelas .....    | 4                  | 1       | 2                  | 1       | 4                  | 1       | 1                  | ...     | 5                  | 1       | 2                  | 1       | 1                  | 1       | 6                  | ...     | 4                  | ...     | 5                  | ...     |
| Ill-defined .....   | 17                 | 2       | 18                 | 2       | 19                 | 1       | 14                 | 1       | 14                 | ...     | 10                 | ...     | 10                 | 1       | 11                 | 2       | 5                  | ...     | 11                 | ...     |
| Total .....         | 538                | 79      | 634                | 85      | 726                | 73      | 402                | 48      | 340                | 30      | 253                | 27      | 245                | 16      | 281                | 24      | 285                | 25      | 431                | 39      |



**TABLE I 7.**  
**NOTIFIED CASES AND DEATHS FROM DIPHTHERIA**  
**FOR YEARS 1883 TO 1909.**

| Year. | Cases Notified. | Deaths. | Percentage. |
|-------|-----------------|---------|-------------|
| 1883  | 81              | 24      | 29'6        |
| 1884  | 99              | 22      | 22'2        |
| 1885  | 54              | 17      | 31'5        |
| 1886  | 41              | 12      | 29'3        |
| 1887  | 83              | 21      | 25'3        |
| 1888  | 175             | 61      | 34'9        |
| 1889  | 691             | 206     | 29'8        |
| 1890  | 704             | 206     | 29'3        |
| 1891  | 231             | 78      | 33'8        |
| 1892  | 231             | 55      | 23'8        |
| 1893  | 261             | 56      | 21'4        |
| 1894  | 242             | 64      | 26'4        |
| 1895  | 194             | 73      | 37'6        |
| 1896  | 158             | 52      | 32'9        |
| 1897  | 103             | 32      | 31'1        |
| 1898  | 97              | 33      | 34'0        |
| 1899  | 184             | 75      | 40'8        |
| 1900  | 309             | 90      | 29'1        |
| 1901  | 420             | 140     | 33'3        |
| 1902  | 292             | 75      | 25'7        |
| 1903  | 335             | 86      | 25'7        |
| 1904  | 422             | 116     | 27'5        |
| 1905  | 363             | 81      | 22'3        |
| 1906  | 432             | 90      | 20'8        |
| 1907  | 384             | 74      | 19'3        |
| 1908  | 629             | 125     | 19'9        |
| 1909  | 562             | 107     | 19'0        |

SECTION III.

MEDICAL INSPECTION OF SCHOOLS.





## SECTION III.

MEDICAL INSPECTION OF SCHOOLS.

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This Report here presented deals with the work of the Medical Inspection of Schools and School Children, for the year ending December 31st, 1909.

Two groups of children, those between 5 and 6 years of age, and those between 12 and 13 years of age, have been examined; the former groups representing "entrants" and the latter "leavers," in accordance with the requirements of the Education Code.

In addition it was decided to continue, if possible, the medical examination of scholars not belonging to either of the above age periods, but who might be selected by the Nurse or Teacher on account of some defect. It was felt that much good had resulted previously from the Medical examination of these selected cases: the teachers were generally much interested in them and were naturally anxious to obtain the opinion of the Medical Inspector regarding them, so that one felt loth to give up this part of the work entirely. However, as the year advanced it was found that it would be impracticable with the staff at command to cope with the amount of work involved by the routine examination of all 5-year old and 12-year old children in addition to other scholars selected for defects, hence the latter part of the scheme had, for the most part, to be reluctantly abandoned,

In previous years the results of medical inspection had been recorded on the attendance slips, where a special space was reserved for medical notes. It was seen however, that with the advent of a system of routine inspection of all school children at several periods of their school life, some further provision for recording such results was desirable. Acting on the suggestion of the Medical Officer of the Board of Education, a schedule of medical inspection was adopted, and the card index system of keeping records was instituted. The cards used are 8 inches by 5 inches in size, and are kept stored in a cabinet in the Central Office. Blue cards are used for boys and white for girls.

### **Medical Staff.**

During the year 1909, the staff engaged in the work of medical inspection of schools and school children consisted of :—

The Medical Officer, who is also Medical Officer of Health.

The Assistant Medical Officer, who is also Assistant Medical Officer of Health. He devotes practically the whole of his time to the examination of school children.

A Medical Officer for testing the eyesight of school children (two half days each week).

Two School Nurses.

Six District Sanitary Inspectors.

### **Duties of Medical Staff.**

The Medical Officer's duties are mainly those in

connection with organisation, supervision, preparation of reports, and supervision of sanitation in schools.

The Assistant Medical Officer (whole time) devotes his time to duties in connection with education. Such duties include :—

- (1) The routine inspection of schools and school children in accordance with the regulations made from time to time by the Education Committee.
- (2) The examination of children reported to be mentally or physically defective or epileptic.
- (3) The examination of blind and deaf children, in order to decide whether they are suitable cases to be dealt with under the Blind and Deaf Children Act.
- (4) The examination of (a) Candidates selected for appointment under the Committee, and (b) Candidates for Pupil Teacherships.
- (5) The examination of absentees, or children who are stated to be physically unfit to attend school.
- (6) Lectures to Teachers in the evenings (not exceeding two per week) upon School Hygiene, &c., as may be arranged by the Education Committee.

The Medical Officer for testing eyesight is a specialist who is engaged for two half days per week, to examine the eyesight of and prescribe suitable spectacles for school children referred to him.

The School Nurses' duties include the visitation of schools at such times as the Medical Officer may lay down.



The schools in the Borough are grouped into two districts, and one such district is apportioned to each school nurse.

### **Inspection in the Schools.**

#### **MODES OF PROCEDURE.**

The schools are examined with respect to their general sanitary condition, light, ventilation, cleanliness, and overcrowding by the Medical Officer, who also advises the Education Committee, as to the plans for new schools and the alteration of old ones.

**Sanitary Condition of School Premises.**—Every school is visited once a week by a Sanitary Inspector, who reports to the Medical Officer any defective or insanitary conditions of drains, gullies, water closets, urinals, yard surfaces, &c., which are then promptly remedied.

**Routine Medical Inspection of School Children.**—This work is carried out personally by the Medical Inspector, who has the assistance of one of the school nurses for undressing and dressing the children examined. Neither parents nor teachers are previously notified when the inspection will take place. The result is that the Medical Inspector sees the children as they usually are, and without special preparation. This is an advantage, inasmuch as it gives a truer idea of the generally prevailing state of cleanliness among the Scholars.

Parents are sent for whenever their attendance is deemed desirable, in order to clear up the history of a case, or in order that they may be informed of the

existence of serious defects, and of conditions requiring medical advice or domestic attention.

It may at once be stated, that so far, no trouble has arisen on account of parents not being forewarned of the date of inspection.

Usually, for the purpose of the medical examination, either a classroom or the head teacher's room has been placed at the disposal of the Medical Inspector. No more than half a dozen children are admitted at one time. With the assistance of the nurse, each child's clothing is loosened about the neck and the front of the chest exposed in order that the heart and upper lobes of the lungs may be examined. No further exposure is made, unless a more complete examination appears necessary, and in that case it is usual to keep the child back and send for the parent or else to refer the case for further examination at the Central Office.

Careful note is taken of the state of cleanliness and the condition of teeth, throat and nose, submaxillary and cervical glands, ears and eyes, presence of malnutrition, parasitic and other diseases and defects.

With regard to vision testing, all 12-year old scholars were tested by the Medical Inspector personally, and the vision recorded for each eye separately and both eyes together.

In the case of 5-year old children, systematic vision testing was not carried out, because of the probability of untrustworthy results, and the inability of many such children to name the letters.

Where the vision is  $\frac{6}{18}$  or worse the children are all referred to the Central Office for further examination by the retinoscopy method. In addition, children with less apparent

visual defect, but who may be liable to headaches and symptoms of eye-strain are referred, as are also cases of strabismus.

In the same way any other cases requiring a more detailed examination than can be conveniently given on the school premises, are referred to the Central Office.

Medical inspection cards are taken to the school at the time of inspection, and the teacher first fills in the particulars of name, address, date of birth, and standard. It is always desirable that the teacher should be present at the medical inspection, since he or she can in many instances furnish very valuable information regarding general health, mental condition, and home surroundings of the child, whilst the Medical Inspector can at once point out any defects he may discover, and their bearing on the work of education. Furthermore, there is the opportunity for giving useful demonstrations on parasitic diseases, such as ringworm, scabies, &c. Such demonstrations, besides increasing the teacher's interest in the work, impart a clearer and more intimate knowledge of disease conditions than can be conveyed by lectures.

**Inspection by School Nurses.**—When not assisting the Medical Inspector the school nurses are engaged in systematic inspection of school children, chiefly with the object of discovering verminous and parasitic conditions. For this purpose all the children in a school, irrespective of age periods, are submitted for inspection. In all cases where domestic attention is required the nurse sends for the mother or guardian and advises what should be done. Verminous children are excluded from school by the nurses, and their parents are given a short period in which to carry out directions for cleansing. Cases failing to comply with



these directions within the time specified are referred to the Medical Officer who has now, after issuing a warning notice, power to cause the removal and compulsory cleansing of verminous children. This power is given by Section 122 of the Children's Act of 1908.

The nurses pay special attention to the discovery of ringworm in the schools. In doubtful cases of ringworm of the head, the nurses remove hairs from the suspected patches, and these hairs are forwarded to the Public Health Laboratory, Manchester, where they are submitted to Professor Delépine for microscopic examination. On the Professor's certificate that the fungus is present the cases are at once excluded from school. Obvious cases of ringworm are immediately excluded by the nurses, and referred to the Medical Officer for diagnosis.

### **Examination of Children at the Central Office.**

The Medical Inspector devotes at least two afternoons per week to the examination of school children at the Central Office. The children examined include (*a*) those reported to be mentally defective or epileptic, (*b*) deaf or blind children (*c*) irregular attenders and children reported to be physically unfit to attend school, (*d*) cases referred in the course of routine school inspection for more detailed examination, and (*e*) those excluded for parasitic diseases such as ringworm, and which are kept under supervision and seen at regular intervals. The Superintendent of Attendance Officers arranges for a certain number of the above cases to attend on a given day and cards are delivered to the parents requesting their presence, and stating the place and time of examination. One of the school nurses is always present at these exami-

nations. Particulars of the medical examination are entered in a register and definite periods of absence from school granted where necessary. These entries are transferred to attendance slips which are carried by the attendance officers. The Medical Officer for examining children's eyesight, who is also a member of the Honorary Staff of the Manchester Royal Eye Hospital, attends at the Central Office two half-days per week for the purpose of vision testing.

The eyes of the children to be examined are previously atropinised by the nurse in attendance, and the Medical Officer afterwards estimates the refractive error by the method of retinoscopy, and prescribed spectacles where necessary.

### **Special Local Conditions, and Their Bearing on Medical Inspection.**

The County Borough of Salford comprises a compact and thickly populated area. The population is therefore wholly urban in character, and the proportion of the labouring classes is relatively high. The numerous large and well equipped hospitals and voluntary institutions situate in Manchester and Salford, afford exceptional facilities for obtaining treatment of defects, when parents cannot afford to pay for private medical attendance. Some of these Manchester Institutions, for instance, the Gartside Street Dispensary of the Manchester Children's Hospital, The Manchester Royal Eye Hospital (St. John Street), and The Hospital for Skin Diseases and The Ear Hospital (Byrom Street), are on the whole, perhaps more conveniently situated for Salford than for Manchester school children. There is no doubt that these



charities are much patronised by Salford school children.

It is known that a considerable number of phthisical children, and a still larger number of ‘‘delicate’’ and debilitated children attend the Out-patients’ Department of the Manchester Children’s Hospital, Gartside Street. The staff of physicians attached to this hospital apparently forbid school attendance in all cases of phthisis and doubtful phthisis. This has the effect of lowering the percentage of scholars who are found on medical inspection to be suffering from phthisis.

The Manchester Hospital for Skin Diseases has also been much patronised by Salford school children suffering from parasitic diseases such as ringworm. This hospital is quite modern and exceedingly well equipped as regards staff, electrical apparatus, and in every other respect, and much advantage has been derived from the treatment which children have received at the institution.

### **Baths and Swimming Instruction.**

There are now 5 Public Swimming Baths within the Borough, the new Seedley Baths having just been completed.

During the past season, eight Swimming Instructors were appointed for boys, and four for girls, and the number of attendances of children during school hours at the several baths has been 23,406 in the case of boys, and 19,420 in the case of girls. The Instructors report that of the children attending the baths 806 boys and 552 girls are now able to swim.

From the hygienic point of view it is very desirable that school children should acquire the art of swimming. As a physical exercise it is amongst the best ; it inculcates



habits of cleanliness, besides which it is a most useful accomplishment.

In order to encourage the children to learn swimming, the Baths Committee have continued the arrangement under which a free season ticket for the ensuing year is given to each scholar who at the commencement of the season is unable to swim more than ten yards, and who at the end of the season has proved himself able to swim one length of the bath.

## **Defects and Diseases in School Children.**

### **Skin Diseases.**

**Ringworm.**—Ringworm is a skin disease caused through infection by a parasitic fungus, and is generally in this country, due to that particular fungus known as the *Microsporon Audouini*—a small spored form. The ringworm fungus may either attack the scalp, giving rise to a condition known as *Tinea Tonsurans* (ringworm of the scalp), or it may attack the face or body, causing *Tinea Circinata* (ringworm of the body). Ringworm of the scalp is very much more obstinate and more difficult to cure than ringworm of the body. This is owing to the fact that in ringworm of the scalp the fungus is not merely localised to the surface of the skin, but dips down and penetrates to the very roots of the hair. As a result the infected hairs become brittle and break off short, are readily extracted and often show a white sheath of surrounding fungus. Unless taken in hand and treated vigorously, ringworm of the scalp is liable to drift into a chronic scurfy condition which may remain infectious for years. Such cases are often observed in medical

inspection of school children. In many instances the parents have obtained some medical treatment for the condition, but owing to the prolonged nature of the case have discontinued such treatment before a complete cure could be effected, and the child has returned to school to act as a distributing agent—thus the disease is perpetuated throughout the schools.

An effort is being made in Salford to eradicate this troublesome disease from the schools. Infected children found in the course of medical inspection are at once excluded. The teachers are also asked to notify all cases of ringworm to the Medical Officer. Parents are invited to attend at the Central Office, and the importance of obtaining and continuing with medical treatment until completely cured, is strongly emphasised by the Medical Officer. All cases are kept under supervision and seen at least every three or four weeks, and none are allowed to return to school until certified as fit by the Medical Officer.

In cases of doubt, hairs are extracted and submitted for microscopic examination.

During the past year 111 children with ringworm of the scalp have been kept under medical supervision at the Central Office. Of these cases 81 were boys and 30 girls. Teachers are paying increased attention to this condition, and are becoming more expert in recognising it, so that the number of notifications is on the increase.

**Scabies.**—Commonly known as “the itch” is a skin disease caused through infection by the “*Acarus Scabei*” or “itch insect.”

This little parasite, just visible to the naked eye,

burrows beneath the surface of the skin, and shows some preference for the soft skin between the fingers or at the front of the wrist, although not necessarily confined to these parts. The infection is attended by marked itching ; as a result secondary skin lesions due to scratching commonly follow. This condition does not appear to be very prevalent in Salford schools, a fact partly accounted for by the readiness with which teachers now recognise and exclude from school all such cases. It is very much less frequently met with than ringworm of the head, and it also yields much more readily to treatment than the latter condition. Thorough cleansing of the body, boiling or stoving of the clothing, and the application of sulphur ointment, are the chief essentials in getting rid of this infection. The desired result can often be effected within a week.

**Impetigo and Eczema.**—These are contagious skin diseases frequently spread by inoculation. This is particularly the case with impetigo, which is due to infection of the skin by pus forming cocci. In impetigo, crusts of matter form on the skin—the sufferer readily infects his own fingers by meddling with the sores, and in this way can transfer the infection to a healthy child.

The remaining skin diseases call for little comment.

### **Mental Condition.**

Amongst 12 year old children attending school, epilepsy was met with in 1·7 per 1,000, and mental defect in 6·8 per 1,000 children examined. In Salford, the Education (Defective and Epileptic Children) Act, 1899, is in operation, and suitable cases of mental deficiency



are adopted by the Committee, and maintained in special schools, at the part cost of the Council.

### Teeth.

The proportions of children with (*a*) sound teeth, (*b*) one to four decayed teeth, and (*c*) over four decayed teeth are shown in Tables under the heading ‘‘Enlarged Lymphatic Glands and their Relation with Carious Teeth, Enlarged Tonsils and Adenoids.’’ From these tables we see that amongst 12-year old children, about one out of every 12 boys, and one-eighth of the girls, possess sound teeth, whilst one in five boys and one in seven girls have over four decayed. Amongst 5-year old children, one in four boys and one in five girls had sound teeth, whilst one in four boys and one in five girls had over four decayed.

Had a careful examination of the mouth been made, with dental probe and mirror in each case, no doubt the proportion with decayed teeth would have been found to be considerably larger, but the above figures sufficiently show to what a serious extent caries of the teeth prevails among our school children.

In each case the condition of the teeth appears to be considerably better amongst the girls than amongst the boys. On comparing the teeth in 12-year old and 5-year old children, the latter group shows a larger proportion with sound sets and at the same time a larger proportion with over four decayed than the former.

It is greatly to be desired that children suffering from dental caries should be able to obtain treatment. Besides the acute pain a good many of these children have to endure, the effects of dental caries are far reaching,

mastication is inefficiently performed, dyspepsia readily supervening, and nutrition is interfered with.

The magnitude of the task is one great obstacle to providing conservative dental treatment for all school children affected. But there is no doubt that the institution of a scheme for the extraction of badly carious teeth by skilled dentists, free of charge or at nominal cost to the child, would have a marked influence in raising the standard of general health, and would at the same time obviate much needless suffering.

During the ensuing year the actual number of decayed teeth in each child will be recorded, in order to obtain more definite information as to the amount of dental caries existing.

### **Speech.**

Stammering was much more frequently noticed amongst boys than amongst girls, Of 12-year old boys 1·23 per cent. of stammerers were observed. Teachers have been encouraged to pay increased attention to breathing and elocution in these cases ; swimming has also been frequently recommended.

### **External Eye Diseases.**

Inflammatory conditions, of which Blepharitis was most common, occurred in about 3 per cent. of 5-year old children, and in 2 per cent of 12-year old children.

### **Vision.**

Systematic vision testing was carried out by the Medical Inspector personally, in all 12-year old children, amongst whom 13 per cent. were found to have defective

vision. The term "defective vision" includes all cases designated as  $\frac{6}{18}$  or worse, and also some cases better than  $\frac{6}{18}$  (cases of hypermetropia or hypermetropic astigmatism) which exhibit symptoms of eye strain.

All such cases discovered during the course of routine medical inspection were referred to the Central Office for special examination and suitable spectacles were prescribed for the majority.

About 0·8 per cent. of the children in Infants' departments and over 2 per cent. in Upper departments were found to be wearing spectacles. In some cases of 12-year old children with defective vision, the parents objected to the provision of spectacles on the ground that the children's chance of obtaining employment on leaving school would be prejudiced.

A Table is appended showing an analysis of the refractive error found in children who were examined at the Central Office by the Eye Specialist.

### **Ear Disease.**

**Otorrhoea**, commonly known as "running ear," was found in 2·18 per cent. of 12-year old children, and 1·59 per cent. of 5-year old children. The parents in each case were advised to obtain medical treatment, and many complied. There is far too great a tendency amongst parents to regard this affection with indifference. The danger, not only to the sufferer, but also to other children is not sufficiently realised. Not only are these cases objectionable on account of foul smelling discharge, but what is of much more importance, the discharge itself not infrequently contains enormous numbers of Tubercle



bacilli—more numerous than even in the sputum from advanced cases of phthisis. Hence there is grave risk in such a case of other children becoming infected with tuberculosis.

### **Heart and Circulation.**

In 5-year old children 2·35 per cent. and in 12-year old children 1·24 per cent. were found to have heart murmurs, heard most distinctly over either the mitral area or the aortic area. The great majority were mitral systolic murmurs. Systolic bruits heard best over the pulmonary area, which were in all probability merely functional in character, are not included in these figures. In some of the mitral cases the murmur was faint and confined to the region of the apex beat, in other cases the murmurs were quite harsh and could be readily heard at the angle of the scapula. In all well marked cases the parents were interviewed and warned of the defect, and the children were referred for further examination in three months time. Some of these children with well marked murmurs conducted to the back, presented no outward signs of disease, and the parents were quite unaware of its presence, and it is the discovery of such cases which affords one of the strongest pleas for routine medical examination of all school children, including the apparently healthy as well as those with obvious defect. Not only can the school curriculum be modified where necessary, to suit the condition, but the child's future may be safeguarded by timely warning to parents as to the kind of employment he should follow on leaving school.

### **Lungs.**

**Bronchitis** was found in 5 per cent. of 5-year old children, and in 1·4 per cent. of 12-year olds. As one would naturally expect, this disease was found more frequently in the winter months, and after epidemics of measles and whooping cough.

**Phthisis** is discussed under tuberculosis.

### **Rickets.**

**Rickets and Rickety Deformities** were observed in 4·86 per cent. of 5-year old children and in 0·9 per cent. of 12-year old children. Thus the evidences of rickets and even some of the rickety deformities apparently tend to disappear in later school life. The question arises, are we justified in referring the milder case of bow legs or knock-knee to the Surgeon. It would seem that the circumstances and environment of each such case, and the after care likely to be bestowed by the parent, should be taken into consideration before deciding the question. One has seen cases of ‘‘corrected’’ deformities in which the last state of the child was decidedly worse than the first, owing probably to want of care after medical supervision has ceased. At the same time there is no doubt that in a large number of cases, operative treatment has yielded brilliant results of lasting nature.

### **Tuberculosis.**

**Tuberculosis of the Lungs, or Phthisis,** does not appear to be very prevalent amongst entrants. In the 12-year old group 0·38 per cent. of the children attending school were found to be suffering from definite phthisis.

A large proportion of children suffering from phthisis are not attending school. As previously mentioned, such cases whether in the incipient or more advanced stage are generally forbidden school attendance by their medical advisers.

Out of 1,225 special cases (absentees and those referred for defects) seen at the Central Office during the year 1909, 56 or 4·6 per cent. were found to be suffering from phthisis, 17 from tubercular disease of bone and joint, and 10 from tubercular abdomen, besides which there were 12 showing presumptive evidence of glandular tuberculosis in the form of scars in the neck.

Omitting the latter class, and grouping together tuberculosis of lungs, bone, and abdomen, we find 83 out of 1,225 special cases (12·68 per cent.) suffering from active tuberculosis.

With regard to the question as to whether children affected with tuberculosis should be allowed to attend school or not, the practice followed has been to exclude all cases of phthisis with cough or expectoration or well marked physical signs. We do not think it necessary that cases of incipient and doubtful phthisis should be all rigidly kept out of school, especially in the winter months. Some of these children will be living under more hygienic conditions in the schools than in their own homes ; particularly will this be the case in poorer and overcrowded localities and where there are other patients in the house suffering from advanced phthisis.

During the summer months parents are encouraged to send the affected children to friends, either in the country, or at the seaside.



With regard to other forms of tuberculosis, children with active disease or discharge are excluded from school.

### **Nervous Diseases.**

**Chorea** was found in 0·04 per cent. of younger children, and in 0·09 per cent. of the older children. These were all mild cases. As a rule teachers generally recognise and exclude these cases.

**Burn and Scald Sears** were noticed in 0·4 per cent. of the younger children, and in 0·77 per cent. of the older children. Now that fire guards are compulsory, we may hope to find this proportion considerably diminished in the future.

### **Pediculosis.**

The condition of school children as regards pediculosis still demands much attention from the Medical Inspection Staff. It is too much to hope that pediculosis can be completely eradicated in a short space of time. It is however, encouraging to find that a steady improvement has been taking place particularly in the case of girls' heads. During the year a more clearly defined standard of cleanliness has been adopted for the classification of *Pediculosis Capitis*. Heads are grouped under three divisions, "A," "B," and "C." The "A" group comprises all heads which are entirely free from either pediculi or nits. Group "B" includes "nitty heads"—*i.e.*, those in which no live pediculi are to be found, but in which a comparatively small number of nits, or eggs of

the parasite, are visible. Group “C” comprises the dirty heads, in which either the adult parasites are present, or else the hair is packed with nits. Children with “C” heads are sent home to be cleansed, and the parents are interviewed by the nurse. Cutting the hair close is generally insisted on for this class, as it is hopeless to expect the parents to devote the prolonged and unremitting care and attention which would otherwise be required for the removal of the condition.

In the case of girls with “B” heads, increased attention is urged ; the daily use of the fine comb, and weekly washing with soft soap and warm water are advocated.

All boys are encouraged to wear their hair close cropped. If the custom of wearing the hair short were universal, pediculosis of the head could soon be stamped out. However, until such a fashion is adopted, this question will continue to demand from the Medical Inspection Staff a considerable amount of time and attention.

During the year we have noticed with satisfaction the marked improvement in the state of scholars’ heads, which has resulted from the visit of the School Nurses or Medical Inspector to the Schools. That such improvement has not been altogether temporary, is well shown in the following Tables. In these Tables is set forth a comparison in the state of the heads at first and second visits to the same schools. The second visits were paid from three to six months after the first visits.

TABLES SHOWING COMPARISON IN STATE OF HEADS AT FIRST AND SECOND VISITS TO SAME SCHOOLS. THE SECOND VISITS WERE PAID FROM THREE TO SIX MONTHS AFTER THE FIRST VISIT.

FIRST VISITS.

| Date.                                | School.                         | Boys.     |    |    |    | GIRLS.    |     |     |     |
|--------------------------------------|---------------------------------|-----------|----|----|----|-----------|-----|-----|-----|
|                                      |                                 | No. Exam. | A  | B  | C  | No. Exam. | A   | B   | C   |
| August 18th and 19th.                | School No. 1.<br>Infants' Dept. | 59        | 45 | 9  | 5  | 70        | 10  | 29  | 31  |
| September 8th and 15th.              | School No. 2.<br>Mixed Dept.    | 50        | 41 | 5  | 4  | 156       | 46  | 66  | 44  |
| June 23, 24, 30.<br>July 1st and 7th | School No. 3.<br>Girls' Dept.   | ..        | .. | .. | .. | 272       | 44  | 162 | 66  |
| September 3rd to 13th                | School No. 4.<br>Girls' Dept.   | ..        | .. | .. | .. | 368       | 84  | 193 | 91  |
|                                      | TOTALS .....                    | 109       | 86 | 14 | 9  | 866       | 184 | 450 | 232 |
|                                      | PERCENTAGES ...                 | 100       | 79 | 13 | 8  | 100       | 21  | 52  | 27  |

SECOND VISITS.

| Date.                         | School.                         | Boys.     |     |    |    | GIRLS.    |     |     |    |
|-------------------------------|---------------------------------|-----------|-----|----|----|-----------|-----|-----|----|
|                               |                                 | No. Exam. | A   | B  | C  | No. Exam. | A   | B   | C  |
| December 7th and 8th.         | School No. 1.<br>Infants' Dept. | 66        | 61  | 4  | 1  | 63        | 28  | 32  | 3  |
| December 9th, 10th and 14th.  | School No. 2.<br>Mixed Dept.    | 52        | 50  | 1  | 1  | 157       | 61  | 93  | 3  |
| December 6th and 8th.         | School No. 3.<br>Girls' Dept.   | ..        | ..  | .. | .. | 307       | 84  | 183 | 40 |
| December 13th, 14th and 15th. | School No. 4.<br>Girls' Dept.   | ..        | ..  | .. | .. | 345       | 111 | 203 | 31 |
|                               | TOTALS .....                    | 118       | 111 | 5  | 2  | 872       | 284 | 511 | 77 |
|                               | PERCENTAGES ...                 | 100       | 94  | 4  | 2  | 100       | 32  | 59  | 9  |



As regards body vermin the results have not been quite so encouraging. It is easy enough to effect removal of the condition for the time being by sending the affected children home to be bathed and have their clothing boiled or stoved, but the trouble is that these children very frequently relapse into the old state a short time afterwards. This has been seen repeatedly when schools were being visited for the second time.

On enquiry into the home conditions in these cases, it is often found that dealings with the public house and pawnshop occupy much of the mothers' daily routine. One cannot be surprised at re-infection occurring ; the wonder would be if it did not. The only sure remedy lies in either the regeneration of the drink sodden parent or else the removal of the children from parental custody.

The following Table shows the prevalence of pediculosis in fourteen schools (chiefly in the poorer districts) in which the nurses examined all the children in the latter part of the year :—

Infants' Departments.

| Boys                          |       |     |     |                          | Girls           |       |      |      |                          |
|-------------------------------|-------|-----|-----|--------------------------|-----------------|-------|------|------|--------------------------|
| No.<br>examined               | Heads |     |     | Ver-<br>minous<br>bodies | No.<br>examined | Heads |      |      | Ver-<br>minous<br>bodies |
|                               | A.    | B.  | C.  |                          |                 | A.    | B.   | C.   |                          |
| Aggregate<br>Numbers<br>1,170 | 992   | 116 | 62  | 40                       | 1,226           | 453   | 478  | 295  | 65                       |
| 100 %                         | 84·8  | 9·9 | 5·3 | 3·4                      | 100             | 36·9  | 39·0 | 24·1 | 5·3                      |

Upper Departments.

| Boys                          |       |     |     |                          | Girls           |       |      |      |                          |
|-------------------------------|-------|-----|-----|--------------------------|-----------------|-------|------|------|--------------------------|
| No.<br>examined               | Heads |     |     | Ver-<br>minous<br>bodies | No.<br>examined | Heads |      |      | Ver-<br>minous<br>bodies |
|                               | A.    | B.  | C.  |                          |                 | A.    | B.   | C.   |                          |
| Aggregate<br>Numbers<br>2,322 | 2161  | 116 | 45  | 92                       | 2,426           | 636   | 1284 | 506  | 132                      |
| 100 %                         | 93·1  | 5·0 | 1·9 | 4·0                      | 100             | 26·2  | 52·9 | 20·9 | 5·4                      |

**Treatment of Defects in School Children.**

Where medical inspection reveals defects calling for treatment, the parents are interviewed and advised to consult their medical man. It is found that the very poor, who cannot afford to pay for private medical attendance, readily avail themselves of the facilities for treatment which the numerous Voluntary Institutions afford. Thus in nearly all cases, treatment of defects in school children is carried out either by private practitioners or at the Voluntary Hospitals.

The two conditions for which treatment is undertaken by the Local Authority are :—

- (1) Visual defects.
- (2) Ringworm.

**Ringworm.**—During the year, proposals for the treatment of ringworm by X-Rays were submitted to the Board of Education. After full enquiries, on the part of

the Board, their sanction to the proposed scheme was given subject to the following conditions :—

- (a) That a sum not exceeding 2s. 6d. per case is contributed as a fee for X-Ray treatment.
- (b) That the X-Ray treatment is undertaken only by a skilled operator, and is in no case carried out by a nurse or other unauthorised person.
- (c) That the treatment is provided in a separate room, and not in the room at the Education Office for the general work such as examination of special cases, absentees and children with eye defects.
- (d) That the Local Education Authority take effective steps to secure that no child suffering from ringworm shall continue to attend school.
- (e) That cases are referred for X-Ray treatment under the authority of the School Medical Officer, and that the after treatment also is carried out under his direction.

Arrangements have now been completed for the treatment of ringworm of the head by X-Rays, and a start has been made.

### **Clothing.**

The tendency to clothe children more sensibly has been noticed during the past year, and particularly in the better class girls' schools, where the custom of wearing the indefensible stiff corsets would appear to be on the wane.



### **Free Meals.**

Provision has again been made for the supply of meals to necessitous school children. In some cases weekly weighing observations have been taken by the Medical Staff, but as these observations are being continued, they are not included in this year's report.

### **Infectious Disease.**

The routine arrangements for dealing with infectious disease are detailed in last year's report, and have been continued.

A system of notification is in force, whereby head teachers are asked to forward to the Medical Officer the name, age and address of any child suffering from any of the following :—

Ordinarily notifiable infectious disease, and in addition measles, whooping cough, chicken pox, mumps, ringworm, ophthalmia.

### **Structural Condition of School Buildings.**

The improvements in school buildings carried out during the year have been of a minor character. The schools have been regularly visited by the Sanitary Inspectors, who have paid altogether 1,221 visits. Improvement in the sanitary condition of outside offices, yards, &c., has been maintained.

Routine disinfection of schools is not carried out in Salford, as from our experience of infectious disease and micro-organisms, we can only conclude that such a practice would mean futile expenditure of time and money.

Thorough and frequent school cleaning is greatly to be desired. Dry sweeping should not be practised—damp sawdust should be strewn on the floors before sweeping, otherwise the dust which is raised afterwards settles on desks, walls, and ledges, and is a great factor in the production of a stale, musty atmosphere within the school.

### **Enlarged Lymphatic Glands, and their relation with Carious Teeth, Enlarged Tonsils, and Adenoids.**

The subject of the enlargement of lymphatic glands in the neck of the child, is one that has received but scant attention in most text books on children's diseases.

Amongst the laity, woeful ignorance concerning the condition prevails ; and the oft manifested inability of both parents and teachers to distinguish between enlarged lymphatic glands and that highly infectious disease, mumps, is well known. Owing to such confusion it frequently happens that losses of school attendance occur from the exclusion of supposedly infectious children.

Again, amongst members of the medical profession, there would appear to exist much difference of opinion as to the exact nature and causation of glandular enlargement in the neck, and here is presented to the Medical Inspector of School Children, an attractive field for investigation, and an opportunity for throwing additional light upon the aetiology.

The subject of glandular enlargement is of real importance, for although in most cases, the lowering of general health associated with its presence may be comparatively insignificant, yet the susceptibility of children with chronically enlarged glands to infection

from trivial causes is well established ; and in a considerable proportion of cases, there ensue developments which seriously undermine the child's health, or (where abscess occurs) cause permanent disfigurement.

If we are to avoid these untoward results, a thorough knowledge of the aetiology is essential, for only then can the cause of the trouble be removed in the early stage.

For instance, it would be an improper thing for a child suffering from glandular enlargement and threatened with abscess to be submitted to a painful and depressing dental operation, supposing the condition had really depended not on the presence of carious teeth, but on some unhealthy condition of the nose or throat, which had not been taken into consideration. In the same way also, vaccine treatment by means of tuberculin would be a useless and perhaps risky proceeding, in case the glandular enlargement were of non-tubercular nature.

It was in order to ascertain what relationship existed between (*a*) decayed teeth and enlarged glands, (*b*) enlarged tonsils and glands, and (*c*) adenoid growths and glands, that this preliminary investigation was undertaken.

In the first place it was of course necessary to adopt standards of enlargement or disease ; thus three standards A, B and C, were adopted in each condition as follows :—

Teeth A. No carious teeth present.

Teeth B. One to four decayed teeth present.

Teeth C. Above four decayed teeth present.

Similarly :—

Tonsils A. No enlargement of tonsils.

Tonsils B. Moderate enlargement.

Tonsils C. Much enlargement (almost meeting).



Likewise :—

Adenoids A. Adenoids (causing symptoms) not present.

Adenoids B. Adenoids causing moderate symptoms.

Adenoids C. Adenoids causing marked symptoms.

Again :—

Glands A. Glands which are barely perceptible on palpation ; roughly up to the size of a lentil.

Glands B. Moderately enlarged glands ; roughly up to the size of a haricot bean.

Glands C. Enlargement beyond the size of a haricot bean.

The glands noted were those situated anterior to the sterno-mastoid muscle and those lying under the jaw. Glands lying behind the sterno-mastoid were disregarded.

The method adopted was to correlate the A, B, and C groups of glands with the A, B, and C groups in the case of teeth, tonsils and adenoids respectively, and so obtain some idea of the relative significance of the three latter conditions in the aetiology of glandular enlargement.

This correlation was carried out in respect of four groups of children, as follows :—

I. 636 boys of 12 years of age.

II. 551 girls of 12 years of age.

III. 666 boys of 5 years of age.

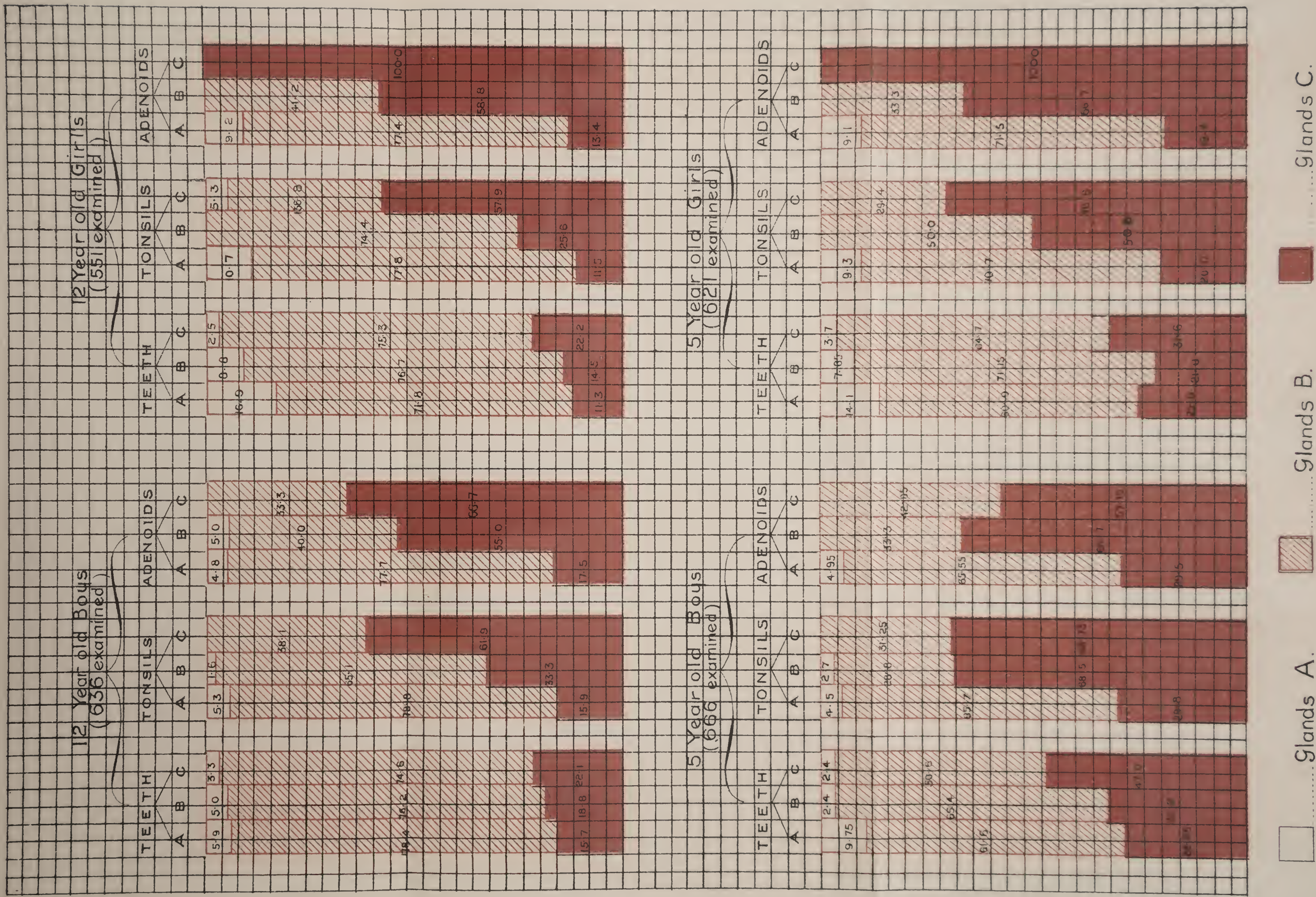
IV. 621 girls of 5 years of age.

making a grand total of 2,474 children examined.

The results of the correlation of glands with teeth, tonsils, and adenoids are set forth first of all in tables of



CHART representing percentage of "Glands A" (no enlargement), "Glands B" (moderate enlargement), and "Glands C" (much enlargement), coexisting with (a) good, (b) moderate, and (c) bad conditions of teeth, tonsils, and adenoids, in four groups of children, 2,474 in all.





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aggregate numbers, then in tables of percentages, and finally in graphic representation.

On the evidence of these tables it would appear that the glandular enlargement is in the first place more prevalent in five year old children than in those of twelve years.

Secondly, the presence of decayed teeth, enlarged tonsils and adenoids, are all associated with an increase in the percentage of children with enlarged glands, but at the same time this increase would appear to be much more pronounced in the case of tonsils and adenoids, than in the case of carious teeth.

For instance, the percentage of "C" glands occurring in association with "B" tonsils or "B" adenoids is distinctly greater than the percentage of "C" glands with "C" teeth ; and this holds good in each of the four groups of children.

At the same time, it would be unwise to draw too strict a comparison on these lines between the relation of carious teeth on the one hand and of tonsils and adenoids on the other hand, with glandular enlargement. This investigation is of but a crude and preliminary nature, and the standards chosen are quite arbitrary. For instance, if the group "teeth C" had comprised those cases in which there were over eight carious teeth instead of over four, very probably we should have found a considerable increase in the percentage of "glands C" in association therewith. It now remains to pursue the enquiry on more special and detailed lines, eliminating as many sources of error as possible. Thus a more accurate idea of the relation between carious teeth and cervical glands would be obtained by grouping separately

children with none, one, two, three, four, five, . . . . .  
15 or more decayed teeth, and drawing curves through points representing the percentage of a particular degree of glandular enlargement associated with each group of teeth. Then again, there would be certain advantages in considering the submaxillary and cervical glands separately instead of together. Likewise, cases in which two or more aetiological factors co-existed might be either left out of consideration altogether or else considered apart.

Opinions based on the results of such systematic and careful observations would be of much more value than the random impressions which so frequently appear in print, and which are allowed to usurp the place of established facts.

Granted that the presence of either enlarged tonsils or adenoids is associated with enlargement of glands in the neck, we have still to consider whether such association is due to a general lymphatic hyperplasia involving both glands and other lymphoid structures such as tonsils, or whether it is rather the catarrhal conditions to which tonsils and adenoids predispose that give rise to glandular enlargement. There is a third supposition, namely, that infecting organisms may obtain access more readily by way of enlarged tonsils and adenoids than through the healthy throat or nose.

These points might be cleared up by accumulating data bearing on—

- (a) The effect on glands of operation for tonsils and adenoids.
- (b) The effect on glands of catarrhal conditions, co-existing with enlarged tonsils and adenoids,

and comparing with the relation existing between glands, and tonsils and adenoids without catarrhal symptoms, and so on.

It is proposed during the present year to go into these questions in as detailed a manner as time will allow.

TABLES SHOWING CORRELATION OF GLANDS WITH TEETH, TONSILS AND ADENOIDS.

A.—TABLES OF AGGREGATE NUMBERS.

(1) Twelve year old boys. (636 examined.)

|             | TEETH. |     |     |         | TONSILS. |    |    |         | ADENOIDS. |    |    |         |
|-------------|--------|-----|-----|---------|----------|----|----|---------|-----------|----|----|---------|
|             | A.     | B.  | C.  | Totals. | A.       | B. | C. | Totals. | A.        | B. | C. | Totals. |
| Glands A..  | 3      | 23  | 4   | 30      | ✓29      | ✓1 | ✓0 | 30      | ✓29       | ✓1 | ✓0 | 30      |
| „ B..       | 40     | 353 | 91  | 484     | 435      | 41 | 8  | 484     | 474       | 8  | 2  | 484     |
| „ C..       | 8      | 87  | 27  | 122     | 88       | 21 | 13 | 122     | 107       | 11 | 4  | 122     |
| Totals .... | 51     | 463 | 122 | 636     | 552      | 63 | 21 | 636     | 610       | 20 | 6  | 636     |

(2) Twelve year old girls. (551 examined.)

|             | TEETH. |     |    |         | TONSILS. |    |    |         | ADENOIDS. |    |    |         |
|-------------|--------|-----|----|---------|----------|----|----|---------|-----------|----|----|---------|
|             | A.     | B.  | C. | Totals. | A.       | B. | C. | Totals. | A.        | B. | C. | Totals. |
| Glands A..  | 12     | 35  | 2  | 49      | ✓48      | ✓0 | ✓1 | 49      | ✓49       | ✓0 | ✓0 | 49      |
| „ B..       | 51     | 306 | 61 | 418     | 350      | 61 | 7  | 418     | 411       | 7  | 0  | 418     |
| „ C..       | 8      | 58  | 18 | 84      | 52       | 21 | 11 | 84      | 71        | 10 | 3  | 84      |
| Totals .... | 71     | 399 | 81 | 551     | 450      | 82 | 19 | 551     | 531       | 17 | 3  | 551     |



(3) Five year old boys. (666 examined.)

|             | TEETH. |     |     |         | TONSILS. |        |        |         | ADENOIDS. |        |        |         |
|-------------|--------|-----|-----|---------|----------|--------|--------|---------|-----------|--------|--------|---------|
|             | A.     | B.  | C.  | Totals. | A.       | B.     | C.     | Totals. | A.        | B.     | C.     | Totals. |
| Glands A..  | 16     | 8   | 4   | 28      | ✓<br>26  | ✓<br>2 | ✓<br>0 | 28      | ✓<br>28   | ✓<br>0 | ✓<br>0 | 28      |
| „ B..       | 101    | 221 | 83  | 405     | 379      | 21     | 5      | 405     | 371       | 31     | 3      | 405     |
| „ C..       | 47     | 109 | 77  | 233     | 172      | 50     | 11     | 233     | 167       | 62     | 4      | 233     |
| Totals .... | 164    | 338 | 164 | 666     | 577      | 73     | 16     | 666     | 566       | 93     | 7      | 666     |

(4) Five year old girls. (621 examined.)

|                |       | TEETH. |     |     |         | TONSILS. |    |    |         | ADENOIDS. |    |    |         |
|----------------|-------|--------|-----|-----|---------|----------|----|----|---------|-----------|----|----|---------|
|                |       | A.     | B.  | C.  | Totals. | A.       | B. | C. | Totals. | A.        | B. | C. | Totals. |
| Glands         | A..   | 18     | 28  | 5   | 51      | 51       | 0  | 0  | 51      | 51        | 0  | 0  | 51      |
|                | „ B.. | 78     | 254 | 88  | 420     | 386      | 29 | 5  | 420     | 402       | 18 | 0  | 420     |
|                | „ C.. | 32     | 75  | 43  | 150     | 109      | 29 | 12 | 150     | 109       | 36 | 5  | 150     |
| Totals . . . . |       | 128    | 357 | 136 | 621     | 546      | 58 | 17 | 621     | 562       | 54 | 5  | 621     |

### B.—TABLES OF PERCENTAGES.

(1) Twelve year old boys.

[illegible]



TABLE S I.

CHILDREN EXAMINED AT THE EDUCATION OFFICE BY THE  
MEDICAL INSPECTOR.

|                          | Boys. |    | Girls. |    | Total. |
|--------------------------|-------|----|--------|----|--------|
| New Cases .....          | 508   | .. | 717    | .. | 1225   |
| Re-examinations .....    | 166   | .. | 153    | .. | 319    |
| Total Examinations ..... | 674   | .. | 870    |    | 1544   |

CHILDREN EXAMINED BY THE EYE SPECIALIST.

|                                 | Boys. |    | Girls. |    | Total. |
|---------------------------------|-------|----|--------|----|--------|
| Number .....                    | 395   | .. | 420    | .. | 815    |
| Spectacles prescribed for ..... | 307   | .. | 343    | .. | 650    |

|  |      |
|--|------|
| Teachers Medically Examined .....            | 41   |
| Pupil Teachers Medically Examined .....      | 72   |
| Bursars Medically Examined .....             | 54   |
| Sanitary Inspectors' Visits to Schools ..... | 1221 |
| Defects Found .....                          | 52   |
| Yard surfaces defective .....                | 12   |
| W.C.'s defective or choked .....             | 13   |
| W.C.'s dirty .....                           | 10   |
| Urinals out of repair .....                  | 1    |
| Urinals dirty .....                          | 1    |
| Downspouts defective or choked .....         | 6    |
| Slop pipe broken .....                       | 1    |
| Drains choked .....                          | 7    |
| Drain inlet defective .....                  | 1    |
|  | 52   |

|                           |   |
|---------------------------|---|
| Schools disinfected ..... | 6 |
|---------------------------|---|



TABLE S II.

## MEDICAL INSPECTION IN THE SCHOOLS.

## A. FIVE YEAR OLD SCHOLARS.

|                                | Boys. |    | Girls. |    | Total. |
|--------------------------------|-------|----|--------|----|--------|
| Number Examined .....          | 1284  | .. | 1225   | .. | 2509   |
| Number with *defects .....     | 786   | .. | 637    | .. | 1423   |
| Number referred .....          | 64    | .. | 47     | .. | 111    |
| Percentage with *defects ..... | 61.2  | .. | 52.0   | .. | 56.7   |
| Percentage referred .....      | 5.0   | .. | 3.8    | .. | 4.4    |

## B.—TWELVE YEAR OLD SCHOLARS.

|                                | Boys. |    | Girls. |    | Total. |
|--------------------------------|-------|----|--------|----|--------|
| Number examined .....          | 1222  | .. | 1119   | .. | 2341   |
| Number with *defects .....     | 752   | .. | 699    | .. | 1451   |
| Number referred .....          | 138   | .. | 185    | .. | 323    |
| Percentage with *defects ..... | 61.5  | .. | 62.5   | .. | 62.0   |
| Percentage referred .....      | 11.3  | .. | 16.5   | .. | 13.8   |

## C.—OTHER CHILDREN IN INFANTS' DEPARTMENTS EITHER OVER OR UNDER FIVE YEARS OF AGE, AND THEREFORE NOT INCLUDED IN A.

|  | Boys. |    | Girls. |    | Total. |
|--|-------|----|--------|----|--------|
| Number examined by Nurse ....                  | 1398  | .. | 1449   | .. | 2847   |
| Number re-examined by Medical<br>Officer ..... | 346   | .. | 252    | .. | 598    |
| Number referred .....                          | 44    | .. | 44     | .. | 88     |

## D.—OTHER CHILDREN IN UPPER DEPARTMENTS EITHER OVER OR UNDER TWELVE YEARS OF AGE, AND THEREFORE NOT INCLUDED IN B.

|  | Boys. |    | Girls. |    | Total. |
|--|-------|----|--------|----|--------|
| Number examined by Nurse ....                  | 3317  | .. | 3365   | .. | 6682   |
| Number re-examined by Medical<br>Officer ..... | 879   | .. | 892    | .. | 1771   |
| Number referred .....                          | 157   | .. | 172    | .. | 329    |

\* The term "defect" includes conditions set forth in Tables S III. and S IV., except that enlargement of Submaxillary and Cervical Glands is not included.

TABLE S III.

CLASSIFICATION OF DEFECTS FOUND IN CHILDREN EXAMINED IN THE SCHOOLS DURING THE YEAR 1909.

A.—FIVE YEAR OLD CHILDREN.

Boys .....1284

Girls .....1225

Total .....2,509

|                                     | Boys. | Rate per<br>1000<br>Exam. | Girls. | Rate per<br>1000<br>Exam. | Total. | Rate per<br>1000<br>Exam. |
|-------------------------------------|-------|---------------------------|--------|---------------------------|--------|---------------------------|
| Undersized .....                    | 98    | 76.3                      | 56     | 45.7                      | 154    | 61.4                      |
| Skin Diseases—                      |       |                           |        |                           |        |                           |
| Ringworm, head .....                | 11    | 8.6                       | 4      | 3.3                       | 15     | 6.0                       |
| „ body .....                        | 4     | 3.1                       | 2      | 1.6                       | 6      | 2.4                       |
| Scabies .....                       | 0     | 0                         | 0      | 0                         | 0      | 0                         |
| Impetigo .....                      | 15    | 11.7                      | 14     | 11.4                      | 29     | 11.6                      |
| Eczema .....                        | 9     | 7.0                       | 11     | 9.0                       | 20     | 8.0                       |
| Sores .....                         | 30    | 23.4                      | 7      | 5.7                       | 37     | 14.7                      |
| Xeroderma .....                     | 2     | 1.6                       | 2      | 1.6                       | 4      | 1.6                       |
| Herpes .....                        | 1     | 0.8                       | 2      | 1.6                       | 3      | 1.2                       |
| Mental Condition—                   |       |                           |        |                           |        |                           |
| Epileptic .....                     | 1     | 0.8                       | 1      | 0.8                       | 2      | 0.8                       |
| Feeble Minded .....                 | 0     | 0                         | 1      | 0.8                       | 1      | 0.4                       |
| Mentally Dull .....                 | 24    | 18.7                      | 10     | 8.2                       | 34     | 13.6                      |
| Teeth—Over 4 with marked decay .... | 198   | 154.2                     | 179    | 146.1                     | 377    | 150.2                     |
| Nose and Throat—                    |       |                           |        |                           |        |                           |
| Chronic Rhinitis .....              | 6     | 4.7                       | 3      | 2.4                       | 9      | 3.6                       |
| Laryngitis.....                     | 0     | 0                         | 1      | 0.8                       | 1      | 0.4                       |
| Tonsils and Adenoids— .....         | 280   | 218.1                     | 197    | 160.8                     | 477    | 190.1                     |
| Submaxillary and Cervical Glands—   |       |                           |        |                           |        |                           |
| Much enlarged .....                 | 375   | 292.6                     | 300    | 244.9                     | 675    | 269.0                     |
| Speech—                             |       |                           |        |                           |        |                           |
| Stammering .....                    | 8     | 6.2                       | 0      | 0.                        | 8      | 3.2                       |
| Defective Articulation .....        | 23    | 17.9                      | 10     | 8.2                       | 33     | 13.2                      |
| External Eye Disease—               |       |                           |        |                           |        |                           |
| Strabismus .....                    | 41    | 31.9                      | 25     | 20.4                      | 66     | 26.3                      |
| Blepharitis .....                   | 28    | 21.8                      | 19     | 15.5                      | 47     | 18.7                      |
| Conjunctivitis .....                | 7     | 5.5                       | 4      | 3.3                       | 11     | 4.4                       |
| Corneal Ulcer and Nebula .....      | 6     | 4.7                       | 6      | 4.9                       | 12     | 4.8                       |
| Loss of one Eye .....               | 3     | 2.3                       | 3      | 2.4                       | 6      | 2.4                       |
| Protrusion of Eye Ball .....        | 0     | 0                         | 1      | 0.8                       | 1      | 0.4                       |
| Nystagmus .....                     | 1     | 0.8                       | 0      | 0                         | 1      | 0.4                       |

TABLE S III.—*Continued.*CLASSIFICATION OF DEFECTS.—FIVE YEAR OLD CHILDREN.—*Continued.*

|  | Boys. | Rate per<br>1000<br>Exam. | Girls. | Rate per<br>1000<br>Exam. | Total. | Rate per<br>1000<br>Exam. |
|--|-------|---------------------------|--------|---------------------------|--------|---------------------------|
| Vision—very defective .....                    | 23    | 17·9                      | 19     | 15·5                      | 42     | 16·7                      |
| Ear Disease—Otorrhoea .....                    | 24    | 18·7                      | 16     | 13·1                      | 40     | 15·9                      |
| Hearing—much impaired .....                    | 2     | 1·6                       | 2      | 1·6                       | 4      | 1·6                       |
| Heart and Circulation—<br>Cardiac Disease..... | 38    | 29·6                      | 21     | 17·1                      | 59     | 23·5                      |
| Lungs—   |       |                           |        |                           |        |                           |
| Bronchitis.....                                | 70    | 54·5                      | 57     | 46·5                      | 127    | 50·6                      |
| Phthisis.....                                  | 0     | 0                         | 2      | 1·6                       | 2      | 0·8                       |
| Rickets .....                                  | 70    | 54·5                      | 52     | 42·4                      | 122    | 48·6                      |
| Tuberculosis—                                  |       |                           |        |                           |        |                           |
| Bone and Joint .....                           | 3     | 2·3                       | 1      | 0·8                       | 4      | 1·6                       |
| Gland Scar Neck .....                          | 6     | 4·7                       | 10     | 8·2                       | 16     | 6·4                       |
| Nervous System—                                |       |                           |        |                           |        |                           |
| Infantile Paralysis .....                      | 2     | 1·6                       | 0      | 0                         | 2      | 0·8                       |
| Chorea.....                                    | 1     | 0·8                       | 0      | 0                         | 1      | 0·4                       |
| Incontinence of Urine .....                    | 2     | 1·6                       | 0      | 0                         | 2      | 0·8                       |
| Delicate .....                                 | 5     | 3·9                       | 6      | 4·9                       | 11     | 4·4                       |
| Anaemia .....                                  | 17    | 13·2                      | 20     | 16·3                      | 37     | 14·7                      |
| Unequal Shoulders .....                        | 68    | 53·0                      | 77     | 62·9                      | 145    | 57·8                      |
| Malformation—                                  |       |                           |        |                           |        |                           |
| Malformed Cranium .....                        | 6     | 4·7                       | 0      | 0                         | 6      | 2·4                       |
| Deformed Chest .....                           | 5     | 3·9                       | 1      | 0·8                       | 6      | 2·4                       |
| Cleft Palate .....                             | 2     | 1·6                       | 2      | 1·6                       | 4      | 1·6                       |
| Hare Lip .....                                 | 1     | 0·8                       | 0      | 0                         | 1      | 0·4                       |
| Malformed Hand .....                           | 1     | 0·8                       | 0      | 0                         | 1      | 0·4                       |
| Goitre .....                                   | 2     | 1·6                       | 0      | 0                         | 2      | 0·8                       |
| Burn and Scald Scars .....                     | 3     | 2·3                       | 7      | 5·7                       | 10     | 4·0                       |
| Wound Scars .....                              | 6     | 4·7                       | 0      | 0                         | 6      | 2·4                       |
| Other Diseases and Defects .....               | 6     | 4·7                       | 1      | 0·8                       | 7      | 2·8                       |



TABLE S IV.

CLASSIFICATION OF DEFECTS FOUND IN CHILDREN EXAMINED IN THE SCHOOLS DURING THE YEAR 1909.

B.—TWELVE YEAR OLD CHILDREN.

|             |             |
|-------------|-------------|
| Boys .....  | I222        |
| Girls ..... | III9        |
| Total ..... | <u>2341</u> |

|                                    | Boys. | Rate per<br>1000<br>Exam. | Girls. | Rate per<br>1000<br>Exam. | Total | Rate per<br>1000<br>Exam. |
|------------------------------------|-------|---------------------------|--------|---------------------------|-------|---------------------------|
| Undersized .....                   | 103   | 84.3                      | 35     | 31.3                      | 138   | 58.9                      |
| Skin Diseases—                     |       |                           |        |                           |       |                           |
| Ringworm, head .....               | 5     | 4.1                       | 1      | 0.9                       | 6     | 2.6                       |
| "          body .....              | 3     | 2.5                       | 0      | 0                         | 3     | 1.3                       |
| Scabies .....                      | 0     | 0                         | 1      | 0.9                       | 1     | 0.4                       |
| Impetigo .....                     | 11    | 9.0                       | 1      | 0.9                       | 12    | 5.1                       |
| Eczema .....                       | 3     | 2.5                       | 3      | 2.7                       | 6     | 2.6                       |
| Sores .....                        | 9     | 7.4                       | 6      | 5.4                       | 15    | 6.4                       |
| Xeroderma .....                    | 5     | 4.1                       | 4      | 3.6                       | 9     | 3.8                       |
| Alopecia .....                     | 3     | 2.5                       | 2      | 1.8                       | 5     | 2.1                       |
| Lupus .....                        | 1     | 0.8                       | 2      | 1.8                       | 3     | 1.3                       |
| Psoriasis .....                    | 1     | 0.8                       | 1      | 0.9                       | 2     | 0.9                       |
| Mental Condition—                  |       |                           |        |                           |       |                           |
| Epilepsy .....                     | 3     | 2.5                       | 1      | 0.9                       | 4     | 1.7                       |
| Feeble Minded .....                | 9     | 7.4                       | 7      | 6.3                       | 16    | 6.8                       |
| Dull .....                         | 41    | 33.6                      | 34     | 30.4                      | 75    | 32.0                      |
| Teeth—over 4 with marked decay ... | 152   | 124.4                     | 111    | 99.2                      | 263   | 112.3                     |
| Nose and Throat—                   |       |                           |        |                           |       |                           |
| Chronic Rhinitis .....             | 2     | 1.6                       | 6      | 5.4                       | 8     | 3.4                       |
| Laryngitis.....                    | 5     | 4.1                       | 1      | 0.9                       | 6     | 2.6                       |
| Nasal Polypus .....                | 0     | 0                         | 1      | 0.9                       | 1     | 0.4                       |
| Tonsils and Adenoids .....         | 225   | 184.1                     | 248    | 221.6                     | 473   | 202.1                     |
| Submaxillary and Cervical Glands—  |       |                           |        |                           |       |                           |
| Much Enlarged .....                | 216   | 176.8                     | 171    | 152.8                     | 387   | 165.3                     |
| Speech—                            |       |                           |        |                           |       |                           |
| Stammering .....                   | 15    | 12.3                      | 3      | 2.7                       | 18    | 7.7                       |
| Defective Articulation .....       | 9     | 7.4                       | 4      | 3.6                       | 13    | 5.6                       |

TABLE S IV.—*Continued.*

CLASSIFICATION OF DEFECTS.—TWELVE YEAR OLD CHILDREN.—  
*Continued.*

|                                | Boys. | Rate per<br>1000<br>Exam. | Girls. | Rate per<br>1000<br>Exam. | Total. | Total.<br>Rate per<br>1000 |
|--------------------------------|-------|---------------------------|--------|---------------------------|--------|----------------------------|
| External Eye Diseases—         |       |                           |        |                           |        |                            |
| Strabismus .....               | 19    | 15.5                      | 17     | 15.2                      | 36     | 15.4                       |
| Blepharitis .....              | 9     | 7.4                       | 18     | 16.1                      | 27     | 11.5                       |
| Conjunctivitis .....           | 3     | 2.5                       | 1      | 0.9                       | 4      | 1.7                        |
| Corneal Ulcer and Nebula ..... | 6     | 4.9                       | 6      | 5.4                       | 12     | 5.1                        |
| Cataract .....                 | 0     | 0                         | 1      | 0.9                       | 1      | 0.4                        |
| Nystagmus .....                | 0     | 0                         | 1      | 0.9                       | 1      | 0.4                        |
| Ptosis .....                   | 0     | 0                         | 1      | 0.9                       | 1      | 0.4                        |
| Loss of One Eye .....          | 5     | 4.1                       | 2      | 1.8                       | 7      | 3.0                        |
| Vision—very defective .....    | 131   | 107.2                     | 175    | 156.4                     | 306    | 130.7                      |
| Ear Disease—                   |       |                           |        |                           |        |                            |
| Otorrhoea .....                | 24    | 19.6                      | 27     | 24.1                      | 51     | 21.8                       |
| Had Mastoid Operation .....    | 2     | 1.6                       | 1      | 0.9                       | 3      | 1.3                        |
| Aural Polypus .....            | 0     | 0                         | 1      | 0.9                       | 1      | 0.4                        |
| Hearing—Much impaired .....    | 22    | 18.0                      | 9      | 8.0                       | 31     | 13.2                       |
| Heart and Circulation—         |       |                           |        |                           |        |                            |
| Cardiac Disease.....           | 15    | 12.3                      | 14     | 12.5                      | 29     | 12.4                       |
| Lungs—                         |       |                           |        |                           |        |                            |
| Bronchitis.....                | 21    | 17.2                      | 12     | 10.7                      | 33     | 14.1                       |
| Phthisis.....                  | 4     | 3.3                       | 5      | 4.5                       | 9      | 3.8                        |
| Other Lung Diseases .....      | 1     | 0.8                       | 0      | 0                         | 1      | 0.4                        |
| Rickets .....                  | 16    | 13.1                      | 5      | 4.5                       | 21     | 9.0                        |
| Tuberculosis—                  |       |                           |        |                           |        |                            |
| Bone and Joint .....           | 1     | 0.8                       | 0      | 0                         | 1      | 0.4                        |
| Gland Scar Neck .....          | 20    | 16.4                      | 27     | 24.1                      | 47     | 20.1                       |
| Larynx .....                   | 2     | 1.6                       | 0      | 0                         | 2      | 0.9                        |
| Nervous System—                |       |                           |        |                           |        |                            |
| Infantile Paralysis .....      | 0     | 0                         | 1      | 0.9                       | 1      | 0.4                        |
| Hemiplegia .....               | 1     | 0.8                       | 0      | 0                         | 1      | 0.4                        |
| Chorea.....                    | 1     | 0.8                       | 1      | 0.9                       | 2      | 0.9                        |
| Nervous .....                  | 0     | 0                         | 3      | 2.7                       | 3      | 1.3                        |
| Incontinence of Urine .....    | 4     | 3.3                       | 0      | 0                         | 4      | 1.7                        |
| Delicate .....                 | 4     | 3.3                       | 7      | 6.3                       | 11     | 4.7                        |
| Anaemia .....                  | 18    | 14.7                      | 23     | 20.6                      | 41     | 17.5                       |
| Unequal Shoulders .....        | 114   | 93.3                      | 144    | 128.7                     | 258    | 110.2                      |

TABLE S IV.—*Continued.*

CLASSIFICATION OF DEFECTS.—TWELVE YEAR OLD CHILDREN.—  
*Continued.*

|                                 | Boys. | Rate per<br>1000<br>Exam. | Girls. | Rate per<br>1000<br>Exam. | Total. | Rate per<br>1000<br>Exam. |
|---------------------------------|-------|---------------------------|--------|---------------------------|--------|---------------------------|
| Malformations—                  |       |                           |        |                           |        |                           |
| Malformed Cranium .....         | 2     | 1·6                       | 0      | 0                         | 2      | 0·9                       |
| Deformed Chest .....            | 6     | 4·9                       | 1      | 0·9                       | 7      | 3·0                       |
| Cleft Palate .....              | 1     | 0·8                       | 0      | 0                         | 1      | 0·4                       |
| Hare Lip .....                  | 1     | 0·8                       | 0      | 0                         | 1      | 0·4                       |
| Malformed Auricle .....         | 1     | 0·8                       | 0      | 0                         | 1      | 0·4                       |
| „ Jaw .....                     | 1     | 0·8                       | 0      | 0                         | 1      | 0·4                       |
| Loss of Limb or Portion .....   | 2     | 1·6                       | 1      | 0·9                       | 3      | 1·3                       |
| Burn and Scald Scars .....      | 9     | 7·4                       | 9      | 8·0                       | 18     | 7·7                       |
| Tumours .....                   | 2     | 1·6                       | 1      | 0·9                       | 3      | 1·3                       |
| Goitre .....                    | 4     | 3·3                       | 7      | 6·3                       | 11     | 4·7                       |
| Other Diseases or Defects ..... | 23    | 18·8                      | 17     | 15·2                      | 40     | 17·1                      |



TABLE S V.

SUMMARY OF DEFECTS FOUND IN INFANT SCHOLARS NOT INCLUDED  
IN AGE PERIODS, BUT SELECTED BY TEACHER OR NURSE  
FOR MEDICAL EXAMINATION ON ACCOUNT OF SOME DEFECT.

|                                  | Boys. | Girls. | Total. |
|----------------------------------|-------|--------|--------|
| Undersized .....                 | 24    | 12     | 36     |
| Underfed .....                   | 1     | 1      | 2      |
| Skin Diseases :—                 |       |        |        |
| Tinea Tonsurans .....            | 9     | 1      | 10     |
| Eczema .....                     | 6     | 1      | 7      |
| Impetigo .....                   | 1     | 1      | 2      |
| Alopecia .....                   | 1     | 0      | 1      |
| Seborrhœa .....                  | 0     | 1      | 0      |
| Ichthyosis .....                 | 1     | 0      | 1      |
| Sores .....                      | 11    | 4      | 15     |
| Mental Condition :—              |       |        |        |
| Feeble Minded .....              | 6     | 7      | 13     |
| Dull and Backward .....          | 24    | 7      | 31     |
| Epileptic .....                  | 1     | 0      | 1      |
| Cretin .....                     | 0     | 1      | 1      |
| Teeth—very bad .....             | 23    | 12     | 35     |
| Nose and Throat—Tonsilitis ..... | 1     | 1      | 2      |
| Tonsils and Adenoids .....       | 43    | 43     | 86     |
| Speech :—                        |       |        |        |
| Stammering .....                 | 6     | 2      | 8      |
| Defective Articulation .....     | 18    | 7      | 25     |
| External Eye Diseases :—         |       |        |        |
| Blepharitis .....                | 12    | 13     | 25     |
| Conjunctivitis .....             | 5     | 2      | 7      |
| Corneal Nebula .....             | 5     | 0      | 5      |
| Nystagmus .....                  | 1     | 0      | 1      |
| Loss of one eye .....            | 2     | 0      | 2      |
| Strabismus .....                 | 19    | 14     | 33     |

TABLE S V.—*Continued.*SUMMARY OF DEFECTS FOUND IN INFANT SCHOLARS.—*Continued.*

|  | Boys. | Girls. | Total. |
|--|-------|--------|--------|
| Vision—very defective .....            | 17    | 15     | 32     |
| Ear Disease—Otorrhoea .....            | 9     | 5      | 14     |
| Heart and Circulation—Cardiac Disease. | 3     | 1      | 4      |
| Lungs :—                               |       |        |        |
| Bronchitis.....                        | 10    | 4      | 14     |
| Phthisis.....                          | 0     | 1      | 1      |
| Rickets .....                          | 84    | 45     | 129    |
| Tuberculosis :—                        |       |        |        |
| Bone and Joint .....                   | 2     | 3      | 5      |
| Glandular .....                        | 5     | 3      | 8      |
| Nervous System—Infantile Paralysis.    | 3     | 2      | 5      |
| Delicate .....                         | 7     | 2      | 9      |
| Anaemia .....                          | 10    | 3      | 13     |
| Unequal Shoulders .....                | 67    | 72     | 139    |
| Malformations and Deformities :—       |       |        |        |
| Talipes .....                          | 1     | 0      | 1      |
| Malformed Cranium .....                | 1     | 0      | 1      |
| Torticollis .....                      | 1     | 0      | 1      |
| Pigeon Chest .....                     | 1     | 0      | 1      |
| Other Diseases and Defects :—          |       |        |        |
| Goitre .....                           | 1     | 0      | 1      |
| Burn and Scald Scars .....             | 3     | 3      | 6      |
| Hernia.....                            | 1     | 0      | 1      |
| Abscess .....                          | 1     | 1      | 2      |
| Neglected .....                        | 2     | 0      | 2      |

TABLE S VI.

SUMMARY OF DEFECTS FOUND IN SCHOLARS IN UPPER DEPARTMENTS, SUCH SCHOLARS NOT BEING INCLUDED IN AGE PERIODS, BUT WHO WERE SELECTED BY TEACHER OR NURSE FOR MEDICAL EXAMINATION ON ACCOUNT OF SOME DEFECT.

|                              | Boys. | Girls. | Total. |
|------------------------------|-------|--------|--------|
| Undersized .....             | 34    | 28     | 62     |
| Underfed .....               | 3     | 1      | 4      |
| Skin Diseases.—              |       |        |        |
| Tinea Tonsurans.....         | 18    | 2      | 20     |
| ,,    Circinata .....        | 0     | 1      | 1      |
| Eczema .....                 | 3     | 1      | 4      |
| Impetigo .....               | 8     | 7      | 15     |
| Scabies .....                | 2     | 0      | 2      |
| Xeroderma .....              | 1     | 1      | 2      |
| Seborrhoea .....             | 0     | 1      | 1      |
| Herpes .....                 | 0     | 1      | 1      |
| Sores .....                  | 9     | 3      | 12     |
| Lupus .....                  | 1     | 0      | 1      |
| Alopecia .....               | 6     | 2      | 8      |
| Mental Condition—            |       |        |        |
| Feeble Minded .....          | 9     | 11     | 20     |
| Dull and Backward .....      | 28    | 14     | 42     |
| Epileptic .....              | 2     | 4      | 6      |
| Teeth—very bad .....         | 101   | 84     | 185    |
| Nose and Throat—             |       |        |        |
| Laryngitis.....              | 1     | 2      | 3      |
| Tonsilitis .....             | 2     | 0      | 2      |
| Rhinitis.....                | 2     | 1      | 3      |
| Pharyngitis .....            | 2     | 1      | 3      |
| Tonsils and Adenoids .....   | 107   | 128    | 235    |
| Speech—                      |       |        |        |
| Stammering .....             | 19    | 5      | 24     |
| Defective Articulation ..... | 34    | 31     | 65     |



TABLE S VI.—*Continued.*SUMMARY OF DEFECTS FOUND IN CHILDREN IN UPPER DEPARTMENTS.—  
*Continued.*

|                                   | Boys. | Girls. | Total. |
|-----------------------------------|-------|--------|--------|
| External Eye Diseases—            |       |        |        |
| Blepharitis .....                 | 34    | 27     | 61     |
| Conjunctivitis .....              | 6     | 4      | 10     |
| Corneal Nebula .....              | 11    | 7      | 18     |
| Cataract .....                    | 1     | 1      | 2      |
| Keratitis .....                   | 2     | 2      | 4      |
| Ptosis .....                      | 1     | 0      | 1      |
| Nystagmus .....                   | 1     | 0      | 1      |
| Loss of one eye .....             | 5     | 2      | 7      |
| Strabismus .....                  | 42    | 26     | 68     |
| Vision—very defective .....       | 111   | 108    | 219    |
| Ear Disease—Otorrhoea .....       | 18    | 21     | 39     |
| Hearing—much impaired .....       | 0     | 4      | 4      |
| Heart and Circulation—Heart Dis.. | 9     | 4      | 13     |
| Lungs—                            |       |        |        |
| Bronchitis.....                   | 10    | 4      | 14     |
| Phthisis.....                     | 1     | 1      | 2      |
| Other Lung Disease.....           | 1     | 1      | 2      |
| Rickets and Rickety Deformities . | 69    | 49     | 118    |
| Tuberculosis—                     |       |        |        |
| Bone and Joint .....              | 8     | 2      | 10     |
| Glandular .....                   | 26    | 21     | 47     |
| Nervous Diseases—                 |       |        |        |
| Infantile Paralysis .....         | 2     | 1      | 3      |
| Hemiplegia .....                  | 1     | 0      | 1      |
| Idiopathic Muscular Atrophy .     | 1     | 0      | 1      |
| Nervous .....                     | 2     | 2      | 4      |
| Tremors .....                     | 0     | 1      | 1      |
| Incontinence of Urine .....       | 4     | 1      | 5      |
| Chorea.....                       | 1     | 3      | 4      |

TABLE S VI.—Continued.

SUMMARY OF DEFECTS FOUND IN CHILDREN IN UPPER DEPARTMENTS.—  
Continued.

|                                | Boys. | Girls. | Total. |
|--------------------------------|-------|--------|--------|
| Delicate .....                 | 8     | 8      | 16     |
| Anaemia .....                  | 7     | 18     | 25     |
| Unequal shoulders .....        | 254   | 317    | 571    |
| Malformations and Deformities— |       |        |        |
| Cleft Palate .....             | 2     | 0      | 2      |
| Hare Lip .....                 | 0     | 3      | 3      |
| Meningocele .....              | 0     | 1      | 1      |
| Talipes .....                  | 2     | 0      | 2      |
| Malformed Jaw .....            | 0     | 1      | 1      |
| „ Cranium .....                | 2     | 0      | 2      |
| Torticollis .....              | 1     | 1      | 2      |
| Epispadias .....               | 1     | 0      | 1      |
| Displaced Coccyx .....         | 0     | 1      | 1      |
| Deflected Nasal Septum .....   | 4     | 0      | 4      |
| Pigeon Chest .....             | 1     | 0      | 1      |
| Other Diseases and Defects—    |       |        |        |
| Rheumatism .....               | 4     | 2      | 6      |
| Hernia.....                    | 2     | 1      | 3      |
| Abscess .....                  | 1     | 1      | 2      |
| Gastric Catarrh .....          | 2     | 3      | 5      |
| Burn and Scald Scars .....     | 11    | 8      | 19     |
| Old Injuries .....             | 10    | 1      | 11     |
| Goitre .....                   | 2     | 1      | 3      |
| Haemophilic.....               | 1     | 0      | 1      |
| Neglected .....                | 6     | 0      | 6      |

TABLE S VII.

CLASSIFICATION OF SPECIAL CASES EXAMINED BY THE MEDICAL  
INSPECTOR AT THE CENTRAL OFFICE, DURING THE YEAR 1909.

|                            | Boys. | Girls. | Total. |
|----------------------------|-------|--------|--------|
| Number Examined.....       | 508   | 717    | 1225   |
| Skin Diseases—             |       |        |        |
| Ringworm, head .....       | 81    | 30     | 111    |
| „    body.....             | 3     | 2      | 5      |
| Scabies .....              | 8     | 9      | 17     |
| Eczema .....               | 7     | 7      | 14     |
| Impetigo .....             | 7     | 7      | 14     |
| Alopecia .....             | 2     | 1      | 3      |
| Psoriasis .....            | 1     | 0      | 1      |
| Seborrhoea .....           | 0     | 1      | 1      |
| Ichthyosis.....            | 0     | 1      | 1      |
| Pediculosis—               |       |        |        |
| Head .....                 | 7     | 97     | 104    |
| Body .....                 | 5     | 9      | 14     |
| Mental Condition—          |       |        |        |
| Epilepsy .....             | 9     | 10     | 19     |
| Mentally Defective .....   | 6     | 13     | 19     |
| Cretinism .....            | 0     | 1      | 1      |
| Mentally dull.....         | 5     | 8      | 13     |
| Teeth—very bad state ..... | 3     | 3      | 6      |
| Nose and Throat—           |       |        |        |
| Pharyngitis .....          | 0     | 1      | 1      |
| Tonsillitis .....          | 1     | 2      | 3      |
| Laryngitis.....            | 1     | 2      | 3      |
| Ozoena .....               | 1     | 1      | 2      |
| Tonsils and Adenoids ..... | 60    | 73     | 133    |



TABLE S. VII.—*Continued.*CLASSIFICATION OF SPECIAL CASES.—*Continued.*

|                                    | Boys. | Girls. | Total. |
|------------------------------------|-------|--------|--------|
| Speech—                            |       |        |        |
| Stammering .....                   | 1     | 0      | 1      |
| Defective Articulation .....       | 1     | 2      | 3      |
| External Eye Diseases—             |       |        |        |
| Strabismus .....                   | 7     | 10     | 17     |
| Blepharitis .....                  | 5     | 15     | 20     |
| Conjunctivitis .....               | 0     | 5      | 5      |
| Corneal Ulcer and Nebula ...       | 9     | 7      | 16     |
| Keratitis .....                    | 3     | 15     | 18     |
| Nystagmus .....                    | 1     | 0      | 1      |
| Cataract .....                     | 1     | 1      | 2      |
| Optic Atrophy .....                | 1     | 0      | 1      |
| Blind one eye .....                | 0     | 1      | 1      |
| Vision—very defective .....        | 2     | 11     | 13     |
| Ear Disease—                       |       |        |        |
| Otorrhoea .....                    | 37    | 26     | 63     |
| Aural Polypus .....                | 0     | 1      | 1      |
| Hearing—                           |       |        |        |
| Very much impaired .....           | 1     | 1      | 2      |
| Deaf and Dumb .....                | 2     | 0      | 2      |
| Heart Disease .....                | 10    | 16     | 26     |
| Lungs—                             |       |        |        |
| Bronchitis.....                    | 21    | 30     | 51     |
| Phthisis.....                      | 25    | 31     | 56     |
| Old Empyema.....                   | 0     | 1      | 1      |
| Rickets and Rickety Deformities .. | 20    | 9      | 29     |
| Tuberculosis—                      |       |        |        |
| Bone and Joint .....               | 9     | 8      | 17     |
| Abdominal .....                    | 5     | 5      | 10     |
| Abscess Scars, neck .....          | 6     | 6      | 12     |

TABLE S VII.—*Continued.*CLASSIFICATION OF SPECIAL CASES.—*Continued.*

|                             | Boys. | Girls. | Total. |
|-----------------------------|-------|--------|--------|
| Nervous System—             |       |        |        |
| Hysteria .....              | 0     | 1      | 1      |
| Nervousness .....           | 0     | 7      | 7      |
| Neurasthenia .....          | 0     | 1      | 1      |
| Paraplegia .....            | 0     | 1      | 1      |
| Infantile Paralysis .....   | 0     | 1      | 1      |
| Muscular Atrophy .....      | 1     | 0      | 1      |
| Chorea .....                | 12    | 20     | 32     |
| Delicate .....              | 22    | 34     | 56     |
| Anaemia and Debility .....  | 18    | 38     | 56     |
| Scoliosis .....             | 2     | 12     | 14     |
| Other Diseases—             |       |        |        |
| Rheumatism .....            | 0     | 9      | 9      |
| Gastric Catarrh .....       | 5     | 10     | 15     |
| Hernia .....                | 3     | 0      | 3      |
| Prolapsus Recti .....       | 0     | 1      | 1      |
| Vermes .....                | 1     | 0      | 1      |
| Malnutrition .....          | 0     | 1      | 1      |
| Goitre .....                | 0     | 3      | 3      |
| Puberty .....               | 0     | 2      | 2      |
| Congenital Syphilis .....   | 0     | 1      | 1      |
| Nephritis .....             | 2     | 0      | 2      |
| Abscess .....               | 1     | 1      | 2      |
| Ulcers .....                | 1     | 4      | 5      |
| Injuries .....              | 1     | 1      | 2      |
| Incontinence of Urine ..... | 2     | 3      | 5      |
| Torticollis .....           | 2     | 0      | 2      |
| Fit for School .....        | 86    | 126    | 212    |

TABLE S VIII.

SUMMARY OF CASES SEEN BY THE OPHTHALMIC OFFICER AT THE  
EDUCATION OFFICE, DURING THE YEAR 1909.

## A.—REFRACTIONS.

|  | Boys. | Girls. | Total. |
|--|-------|--------|--------|
| Hypermetropia .....                    | 103   | 99     | 202    |
| Hypermetropic Astigmatism—Simple ....  | 24    | 40     | 64     |
| Hypermetropic Astigmatism—Compound .   | 95    | 99     | 194    |
| Myopia .....                           | 11    | 8      | 19     |
| Myopic Astigmatism—Simple .....        | 9     | 18     | 27     |
| Myopic Astigmatism—Compound .....      | 39    | 34     | 73     |
| Mixed Astigmatism .....                | 38    | 46     | 84     |
| Emmetropia and very slight error ..... | 51    | 57     | 108    |
| TOTALS .....                           | 370   | 401    | 771    |

## B.—DISEASES OF EYE.

|                            | Boys. | Girls. | Total. |
|----------------------------|-------|--------|--------|
| Keratitis .....            | 7     | 10     | 17     |
| Blepharitis .....          | 1     | 1      | 2      |
| Conjunctivitis .....       | 1     | 3      | 4      |
| Corneal Ulcer .....        | 2     | 3      | 5      |
| Corneal Nebula .....       | 1     | 1      | 2      |
| Cataract .....             | 1     | 2      | 3      |
| Trachoma .....             | 0     | 1      | 1      |
| Nystagmus .....            | 1     | 0      | 1      |
| Fit for Blind School ..... | 2     | 1      | 3      |
| TOTALS .....               | 16    | 22     | 38     |



TABLE S IX.

BLIND, DEAF AND DEFECTIVE CHILDREN.  
NEW CASES SENT TO SPECIAL SCHOOLS DURING 1909.

|                                   | Boys. | Girls. | Total. |
|-----------------------------------|-------|--------|--------|
| To Residential Blind School ..... | 0     | 2      | 2      |
| „ Deaf and Dumb Institution.....  | 2     | 1      | 3      |
| „ Defective .....                 | 0     | 3      | 3      |
| „ Epileptic.....                  | 0     | 0      | 0      |
| „ Day Blind School .....          | 1     | 2      | 3      |
| TOTALS .....                      | 3     | 8      | 11     |

TABLE S X.

TOTAL NUMBER OF CHILDREN MAINTAINED IN INSTITUTIONS AT THE  
PART COST OF THE COUNCIL.

| Name of Institution.  | Boys. | Girls. | Total. |
|---|-------|--------|--------|
| Henshaw's Blind Asylum, Manchester .....                          | 8     | 8      | 16     |
| Catholic Blind Asylum, Liverpool .....                            | 3     | 5      | 8      |
| Homes for the Blind, Fulwood, Preston .....                       | 1     | 3      | 4      |
| Blind Children's Home, Prince's Park, Liverpool.                  | —     | 3      | 3      |
| Manchester Day Classes for the Blind .....                        | 8     | 3      | 11     |
| Manchester Schools for the Deaf and Dumb ....                     | 18    | 11     | 29     |
| St. John's Institution for the Deaf and Dumb,<br>Boston Spa ..... | 1     | 3      | 4      |
| Jews' Deaf and Dumb Home, Wandsworth<br>Common .....              | —     | 1      | 1      |
| Sandlebridge School for Feeble Minded Children,<br>Cheshire ..... | 7     | 6      | 13     |
| David Lewis Epileptic Colony School .....                         | 1     | 1      | 2      |
| TOTALS .....  | 47    | 44     | 91     |

## TABLE S XI.

## EXAMINATION OF BURSARS, 1909.

## A.—GIRLS.

|                       |    |
|-----------------------|----|
| Number examined ..... | 48 |
|-----------------------|----|

## PREVIOUS HISTORY.

|  |    |
|--|----|
| Had Measles .....  | 46 |
| „ Whooping Cough .....   | 14 |
| „ Chicken Pox .....  | 13 |
| „ Influenza .....  | 14 |
| „ Scarlet Fever .....  | 9  |
| „ Diphtheria .....   | 3  |
| „ Croup .....  | 1  |
| „ Mumps .....  | 6  |
| „ Erysipelas .....   | 1  |
| „ Rheumatism .....   | 4  |
| „ Pneumonia .....  | 2  |
| „ Broncho-Pneumonia .....  | 1  |
| „ Bronchitis .....   | 2  |
| „ Gastric Catarrh .....  | 3  |
| „ Otitis .....   | 4  |
| „ Jaundice .....   | 1  |
| „ Tonsils and Adenoids removed .....                                   | 2  |
| Vaccinated at Infancy and took .....                                   | 38 |
| „ „ but did not take and not<br>since revaccinated ..                  | 4  |
| „ „ but did not take and<br>since successfully re-<br>vaccinated ..... | 1  |
| „ 1903 .....   | 1  |
| Unvaccinated .....   | 3  |
| Revaccinated in 1902 .....   | 3  |
| „ 1903 .....   | 1  |
| „ 1904 .....   | 2  |
| „ 1905 .....   | 1  |



TABLE S XI.—Continued.

EXAMINATION OF BURSARS.—GIRLS.—Continued.  
DEFECTS FOUND.

|   |   |
|---|---|
| Undersized .....  | I |
| Ear Disease—  |   |
| Perforated ear drum and slightly impaired hearing ..... | 2 |
| Perforated ear drum and markedly impaired hearing ..... | I |
| Impaired hearing, but no Otitis .....                   | I |
| Enlarged Tonsils .....                                  | 3 |
| Tonsils and Adenoids (slight) .....                     | 2 |
| Adenoids (slight) .....                                 | I |
| External Eye Disease—                                   |   |
| Conjunctivitis (slight) .....                           | I |
| Cataract, Right Eye .....                               | I |
| Ptosis .....  | I |
| Strabismus .....  | I |
| Vision—   |   |
| Wearing glasses .....                                   | 4 |
| Requiring testing for glasses .....                     | 7 |
| ,, retesting ,, .....                                   | I |
| Teeth—very bad .....                                    | 2 |
| Scoliosis (slight) .....                                | 4 |
| Anaemia .....   | I |
| Goitre (slight) .....                                   | I |
| Nits in hair .....                                      | I |

The vision was as follows :—

|                |                |                |           |    |
|----------------|----------------|----------------|-----------|----|
| Normal vision— | $\frac{6}{6}$  | $\frac{6}{6}$  | Ji .....  | 30 |
|                | $\frac{6}{9}$  | $\frac{6}{6}$  | Ji .....  | 4  |
|                | $\frac{6}{9}$  | $\frac{6}{9}$  | Ji .....  | 2  |
|                | $\frac{6}{6}$  | $\frac{6}{0}$  | Ji .....  | I  |
|                | $\frac{6}{24}$ | $\frac{6}{36}$ | Ji .....  | I  |
|                | $\frac{6}{36}$ | $\frac{6}{36}$ | Ji .....  | I  |
|                | $\frac{6}{12}$ | $\frac{6}{60}$ | Ji .....  | I  |
|                | $\frac{6}{16}$ | $\frac{6}{12}$ | .....     | I  |
|                | $\frac{6}{6}$  | $\frac{6}{6}$  | Jii ..... | I  |
|                | $\frac{6}{18}$ | $\frac{6}{18}$ | Jii ..... | 2  |

TABLE S XI.—Continued.

EXAMINATION OF BURSARS.—GIRLS.—Continued.

|               |               |                |           |   |
|---------------|---------------|----------------|-----------|---|
| With glasses— | $\frac{6}{6}$ | $\frac{6}{6}$  | Ji .....  | I |
|               | $\frac{6}{9}$ | $\frac{6}{9}$  | Ji .....  | I |
|               | $\frac{6}{9}$ | $\frac{6}{12}$ | Ji .....  | I |
|               | $\frac{6}{6}$ | $\frac{6}{9}$  | Jii ..... | I |

REFRACTIVE ERRORS IN GIRLS NOT HAVING GLASSES.

|   |   |
|---|---|
| Slight Hypermetropia .....                | I |
| Hypermetropia .....                       | I |
| Hypermetropic astigmatism .....           | 2 |
| Slight Myopia (one eye) .....             | I |
| Myopia .....                              | 4 |
| Slight Myopic Astigmatism (one eye) ..... | I |
| Myopic Astigmatism .....                  | 2 |

REFRACTIVE ERRORS IN GIRLS WEARING GLASSES.

|                                 |   |
|---------------------------------|---|
| Hypermetropic Astigmatism ..... | 2 |
| Myopic Astigmatism .....        | 2 |

Classified in another way—

Out of 48 girls examined 30 + 6 had normal vision in one or both eyes—

4 were provided with glasses,  
and of the remainder—

- 1 had Hypermetropia.
- 2 „ Hypermetropic Astigmatism.
- 3 „ Myopia.
- 2 „ Myopic Astigmatism.

TABLE S XI.—*Continued.*

EXAMINATION OF BURSARS, 1909.—*Continued.*

B.—BOYS.

|                       |   |
|-----------------------|---|
| Number examined ..... | 6 |
|-----------------------|---|

PREVIOUS HISTORY.

|                             |   |
|-----------------------------|---|
| Had Measles .....           | 6 |
| „ Influenza .....           | 2 |
| „ Whooping Cough .....      | 2 |
| „ Scarlet Fever .....       | 1 |
| „ Diphtheria .....          | 1 |
| Vaccinated at Infancy ..... | 6 |
| Revaccinated in 1905 .....  | 1 |
| „ 1906 .....                | 1 |

VISION.

|  |   |
|--|---|
| Normal vision $\frac{6}{6}$ $\frac{6}{6}$ Ji .....                           | 3 |
| Slight Hypermetropic astigmatism one eye $\frac{6}{8}$ $\frac{6}{9}$ Ji..... | 1 |
| Slight Myopic astigmatism one eye $\frac{6}{8}$ $\frac{6}{9}$ Ji.....        | 1 |
| Hypermetropic astigmatism $\frac{6}{24}$ $\frac{6}{24}$ .....                | 1 |

In other words, of 6 examined—

3 + 2 had normal vision in both eyes or one eye.

1 had Hypermetropic Astigmatism, for which glasses were recommended.



**TABLE S XII.**  
**EXAMINATION OF PUPIL TEACHERS, 1909.**  
**BOYS AND GIRLS.**

|                                      | Boys. | Girls. |
|--------------------------------------|-------|--------|
| Salford Bursars in 1906 .....        | 0     | 3      |
| „ „ 1907 .....                       | 10    | 47     |
| „ „ 1908 .....                       | 2     | 4      |
| Not previously Salford Bursars ..... | 3     | 3      |
| TOTALS .....                         | 15    | 57     |

|   | Boys. | Girls. | Total. |
|---|-------|--------|--------|
| Number Examined.....                        | 15    | 57     | 72     |
| Unvaccinated.....                           | 1     | 0      | 1      |
| Revaccinated .....                          | 5     | 14     | 19     |
| Wearing Spectacles .....                    | 6     | 18     | 24     |
| „ „ (but require retesting).                | 4     | 13     | 17     |
| Requiring Spectacles .....                  | 1     | 5      | 6      |
| Very bad Teeth .....                        | 0     | 6      | 6      |
| Large Tonsils .....                         | 1     | 2      | 3      |
| Had Tonsils and Adenoids removed .....      | 0     | 2      | 2      |
| Slight Lateral Curvature .....              | 0     | 7      | 7      |
| Had Scarlet Fever since Examined as Bursar. | 0     | 1      | 1      |
| Had Measles since Examined as Bursar..      | 0     | 1      | 1      |

SECTION IV.

VETERINARY INSPECTOR'S REPORT.





## SECTION IV.

## VETERINARY INSPECTOR'S REPORT.

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**DISEASES OF ANIMALS ACTS, 1894—1909.**

**Swine Fever.**—During the year two outbreaks of swine fever occurred in the Borough, 14 pigs being affected with the disease and 11 healthy pigs in contact. All were killed by order of the Board of Agriculture, the owners being allowed market value for the same. Disinfection was carried out as required by the Swine Fever Order of 1908. The movement of pigs, on adjoining piggeries, was restricted for some time, but the disease was confined to the original centres.

**Parasitic Mange.**—Six outbreaks of this disease were dealt with under the Lancashire Parasitic Mange Order of 1908. Eight horses were affected and 36 other horses were stabled with the diseased animals. Two of the affected horses were destroyed by the owners, owing to the advanced stage of the disease, and the remaining animals recovered under treatment.

One owner was prosecuted for failing to notify the existence of the disease, and a fine of 10s. and costs was imposed.

**Glanders and Farcy.**—One case of farcy was notified; compulsory slaughter of the diseased animal was carried out, and the sum of £5 was allowed as compensation,

being one-fourth the value of the animal, as authorised by the Glanders and Farcy Order of 1907. The carcase was removed to the refuse destructor and there cremated.

Eleven horses belonging to the same owner were all tested with mallein in order to detect any occult cases of the disease. All the animals proved to be healthy, and were kept for some time under observation. Rigorous disinfection of the premises, harness, and stable utensils was carried out.

**Cattle Market.**—The Market has been visited and inspected each market day throughout the year, but no cases of scheduled disease have been discovered or reported.

The number of animals exhibited for sale in the Cattle Market during 1909 is as follows :—

100,876 Cattle.

614,694 Sheep.

7,693 Calves.

897 Pigs.

**Lairs and Railway Cattle Docks.**—Frequent visits have been made each week, to the Lairs and Railway Cattle Docks in the Borough, as required by The Animals (Transit and General) Order of 1895.

### UNWHOLESOME FOOD.

The amount of diseased and unsound food dealt with under the Public Health Acts, 1875 and 1890, during the year ending December 31st, 1909, is summarised in the following tables :—

| MONTH.         | Total<br>Number<br>of<br>Seizures. | Beef<br>Weight<br>in lbs. | Mutton<br>Weight<br>in lbs. | Pork<br>Weight<br>in lbs. | Veal<br>Weight<br>in lbs. | Fish<br>Weight<br>in lbs. | Fowl<br>Weight<br>in lbs. | Trotters<br>Weight<br>in lbs. | Eggs<br>Weight<br>in lbs. | Total<br>Weight<br>for the<br>Month. |
|----------------|------------------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------------|---------------------------|--------------------------------------|
| January .....  | 105                                | 2135                      | 2113                        | 832                       | 120                       | ...                       | ...                       | ...                           | ...                       | 5200                                 |
| February ..... | 78                                 | 2637                      | 2284                        | 169                       | 95                        | ...                       | ...                       | ...                           | ...                       | 5185                                 |
| March .....    | 83                                 | 2190                      | 2582                        | 858                       | 40                        | ...                       | ...                       | ...                           | ...                       | 5670                                 |
| April .....    | 49                                 | 1637                      | 1007                        | 878                       | 68                        | ...                       | ...                       | ...                           | ...                       | 3590                                 |
| May .....      | 84                                 | 1902                      | 836                         | 5316                      | 78                        | ...                       | ...                       | ...                           | ...                       | 8132                                 |
| June .....     | 32                                 | 2671                      | 340                         | 595                       | 250                       | ...                       | ...                       | ...                           | ...                       | 3856                                 |
| July.....      | 34                                 | 936                       | 655                         | 122                       | 70                        | ...                       | ...                       | ...                           | ...                       | 1783                                 |
| August .....   | 52                                 | 7233                      | 688                         | 382                       | 40                        | ...                       | ...                       | ...                           | 56                        | 8399                                 |
| September..... | 38                                 | 2058                      | 694                         | 297                       | 70                        | ...                       | ...                       | 2128                          | ...                       | 5247                                 |
| October .....  | 72                                 | 6949                      | 880                         | 282                       | 110                       | 56                        | 106                       | ...                           | ...                       | 8383                                 |
| November.....  | 120                                | 10934                     | 2220                        | 542                       | 170                       | 100                       | ...                       | ...                           | ...                       | 13966                                |
| December ..... | 64                                 | 6166                      | 1009                        | 427                       | 90                        | ...                       | ...                       | ...                           | ...                       | 7692                                 |
| Total .....    | 811                                | 47448                     | 15308                       | 10700                     | 1201                      | 156                       | 106                       | 2128                          | 56                        | 77103                                |

| Where Seized.           | Seizures. | Beef. | Mutton. | Pork. | Veal. | Fish. | Fowl. | Trotters | Eggs. | Total |
|-------------------------|-----------|-------|---------|-------|-------|-------|-------|----------|-------|-------|
| Public Slaughter Houses | 629       | 46233 | 15308   | 428   | 1201  | ...   | ...   | ...      | ...   | 631   |
| Private ,, ,,           | 167       | 733   | ...     | 10236 | ...   | ...   | ...   | ...      | ...   | 109   |
| Shops .....             | 13        | 482   | ...     | 36    | ...   | 156   | 106   | ...      | ...   | 7     |
| Wharves .....           | 1         | ...   | ...     | ...   | ...   | ...   | ...   | 2128     | ...   | 21    |
| Railway Station.....    | 1         | ...   | ...     | ...   | ...   | ...   | ...   | ...      | 56    | ...   |

In these tables the term seizure includes all cases where diseased or unsound food was discovered in the course of routine inspection, and was surrendered by the owners thereof, and also cases where inspection was requested by the owners of diseased carcases, &c.



The total number of seizures was therefore 811, weighing 77,103 lbs., and this amount was condemned for the following causes :—

| No. of Seizures | Cause of Seizure.         | Weight in lbs. |
|-----------------|---------------------------|----------------|
| 295             | Tuberculosis .....        | 49,760         |
| 282             | Asphyxiation .....        | 14,066         |
| 49              | Dropsy .....              | 3,470          |
| 46              | Congestion .....          | 803            |
| 32              | Fluke Disease .....       | 339            |
| 24              | Decomposition .....       | 3,507          |
| 17              | Injured .....             | 708            |
| 17              | Hydatids .....            | 581            |
| 9               | Pleurisy .....            | 89             |
| 6               | Fatty Degeneration .....  | 90             |
| 5               | Pneumonia .....           | 269            |
| 5               | Abscess .....             | 212            |
| 4               | Swine Fever .....         | 790            |
| 4               | Actinomycosis .....       | 120            |
| 3               | Immature .....            | 110            |
| 3               | Non-malignant Tumour ...  | 42             |
| 2               | Icterus .....             | 190            |
| 2               | Septic Pericarditis ..... | 102            |
| 2               | Nephritis .....           | 25             |
| 1               | Choked .....              | 850            |
| 1               | Emaciation .....          | 480            |
| 1               | Malignant Tumour .....    | 460            |
| 1               | Drowned .....             | 40             |

The large number of seizures for asphyxiation is accounted for by the fact that a considerable number of animals are suffocated in transit, and these carcasses are taken by the owners to the Public Slaughter-house at the Cattle Market.

**Tuberculous Pork.**—The connection between tuberculous pork and tuberculous milk has been distinctly shown in three instances during the past year.

In the first of these cases a large number of pigs, slaughtered in the Borough, were found to be affected with tuberculosis ; these animals, on inquiry, proved to have been fed at a Creamery, and on having the particular brand of cream bacteriologically examined, it was found to contain tubercle bacilli. The further result of the inquiry is given under the heading of Tuberculous Milk. The second and third cases occurred together.

Pigs from two separate farms in Cheshire, were found on slaughter, to be affected with tuberculosis. Both farmers were cheese makers and the pigs were therefore probably fed on whey. The Medical Officer of Health for Cheshire was at once informed of our suspicions, and as a result of his investigation on one farm, out of a herd of 48 dairy cattle, three were discovered with tuberculous udders. On the other farm, out of 47 dairy cattle, one tuberculous udder was discovered.

**Slaughterhouses.**—There are 19 slaughter-houses in the Borough, 17 being licensed and two registered. Four of the above are used solely for slaughtering pigs. The following table gives particulars of the visits and number of carcasses inspected.

| DATE.           | No. of<br>Visits. | Beef- | Mutton. | Pork. | Veal. | Total. |
|-----------------|-------------------|-------|---------|-------|-------|--------|
| January .....   | 62                | 81    | 176     | 449   | 3     | 709    |
| February .....  | 66                | 87    | 161     | 387   | 3     | 638    |
| March .....     | 40                | 52    | 134     | 307   | 7     | 500    |
| April .....     | 43                | 53    | 93      | 213   | 7     | 366    |
| May .....       | 46                | 80    | 146     | 375   | 6     | 607    |
| June .....      | 28                | 27    | 40      | 136   | 5     | 208    |
| July .....      | 32                | 30    | 67      | 162   | 3     | 262    |
| August .....    | 49                | 63    | 89      | 182   | 3     | 337    |
| September ..... | 49                | 64    | 89      | 170   | 2     | 325    |
| October .....   | 23                | 40    | 63      | 181   | 1     | 285    |
| November .....  | 64                | 141   | 167     | 360   | 2     | 670    |
| December .....  | 39                | 48    | 60      | 378   | ...   | 486    |
| Total .....     | 541               | 636   | 1285    | 3300  | 42    | 5393   |

The slaughter-houses as a whole are well conducted, but the position and construction of several are very unsatisfactory ; it is proposed to deal with these shortly, and some of the owners have already been approached with a view to alterations being carried out.

**Cow Sheds.**—There are nine shippens in use in the Borough, accommodating 195 cows. 54 visits have been made and the cows carefully examined, especial attention being paid to the condition of the cows' udders.

The condition of the cows throughout the year has been good, and no case of tuberculosis of the udder has been discovered, but one cow which was ailing, was ordered



to be removed from the shippon, and on slaughter proved to be affected with tuberculosis.

Two cases of inflammation of the udder were discovered and the sale of the milk from the affected cows was prohibited until recovery.

**Tuberculous Milk.**—During the year 187 samples of milk and cream were examined for tuberculosis and reported on by Professor Delepine. 128 of this number were mixed milks; 13 of these mixed milks (taken from 12 farms) were found to cause tuberculosis, being a percentage of 10·1. The 12 farms were visited and 586 cows kept thereon examined for tuberculosis of the udder; 34 of them were found to be suffering from abnormal conditions of the udder.

A separate sample of milk was taken from each of these cows; 10 of these were reported to cause tuberculosis. 11 samples were taken from cows, examined during the inspection of farms, supplying a creamery, and were chiefly from cows with abnormal udders, but none were found to cause tuberculosis.

Ten cows, suffering from tuberculosis of the udder, were found on eight of the 12 farms visited. These cows were all slaughtered.

On three farms visited the affected cow had been disposed of prior to my visit, and could not be traced, and on the remaining farm, the farmer stated, that he had bought the milk from a cattle auction in the district, where dairy cows were sold, and this was the milk which was found to be tuberculous.

Twelve samples of cream were taken, and of that

number four were found to cause tuberculosis, being a percentage of 33.

In respect of the four samples of cream which were reported by Professor Delepine to cause tuberculosis, there were two sources of supply.

Forty-eight farms with 828 cows supplied one creamery and three of these farms with 75 cows were found to be sending tuberculous milk.

The second creamery was supplied by 31 farms with 519 cows, and of these one farm with 40 cows was found to be supplying tuberculous milk. On this farm, only one cow was found giving tuberculous milk, thus, a single cow, giving milk containing tubercle bacilli, contaminated the milk of 519 cows, and this contamination could be discovered in a single 4-oz. sample of the cream separated from the mixed milk of the whole group of farms.

During the investigation of the tuberculous cream, 43 farms were visited and 841 cows inspected.

The cattle on four of these farms were found to be extensively affected with tuberculosis, and the supply of milk from them was prohibited until the affected cows were disposed of.

Other farms, were found on inspection, to be structurally defective ; the cleanliness of the premises left much to be desired, and immediate improvements were insisted on.

Ten cows were discovered on the remaining farms clinically affected with tuberculosis, and they were removed and slaughtered.

Tuberculosis of the udder, being secondary to tuberculosis of the internal organs, experience shows that this condition is more common in old cows, the

disease becoming generalised with advancing years. Farmers were therefore advised to sort out old cows annually and replace them with young stock.

Two samples were taken from cows kept within the Borough. Of these one showed well marked pus formation and inflammation of the udder.

The farms visited during the year were situated in the Counties of Cheshire, Lancashire, Staffordshire, and Shropshire.

In the course of the inspection of slaughter-houses, the Veterinary Inspector discovered 11 pigs affected with tuberculosis, which were being slaughtered. He ascertained that all these pigs had been reared at one creamery. I had a sample of the cream, prepared by this creamery, purchased from a vendor in the Borough and submitted to Professor Delepine, who examined the cream and reported that it caused tuberculosis when tested by inoculation.

I visited the creamery, together with the Veterinary Inspector, and found that the separating and bottling of the cream was conducted in a fairly satisfactory manner, and that the proprietor of the creamery retained the services of a Veterinary Surgeon, whose duty was to visit the farms supplying the creamery, and eliminate unsatisfactory dairy cattle. The proprietor supplied me with a list of the various farms supplying milk to him, and these farms were visited.

Thirty-two farms were visited, 694 cows were thoroughly examined, and 11 samples from suspicious cows were obtained and submitted to Professor Delepine for examination. The condition of many of the farms was found to be unsatisfactory.



I had an interview with the proprietor of the creamery and offered the following suggestions, which he promised to do his utmost to carry into effect :—

- (a) To take no more milk from four farms until the condition of the farms and cattle had been greatly improved.
- (b) To insist upon an improvement in the cleanliness of three farms ;
- (c) To use his influence to obtain an improvement, where possible, in the structural conditions of the cowsheds at five farms.

It was also pointed out that a number of the herds were spoiled by the presence of a few old cattle, and that these were often tuberculous and the cause of tuberculous infection to other cattle, and it was suggested, that he would very greatly diminish the risk of tuberculous infection of his cream, if he would make it a condition of his milk contracts, that the farmers must exclude from their herds, all cattle that have had more than four calves.

The Veterinary Inspector made a further inspection of all the farms and found that **all** the cattle, to which he took objection, had been removed from the farms, that the general condition of the premises was greatly improved, and that in several cases structural alterations were already being carried out.

A further sample of the cream was obtained in the Borough, and submitted to Professor Delepine, with satisfactory results.

I also obtained samples of eight other brands of cream sold in the Borough and submitted them to Professor Delepine, who stated, that there was no tuberculosis present in any of the samples.

SECTION V.

WORK OF THE HEALTH VISITORS,  
AND SUPERVISION OF MIDWIVES.





## SECTION V.

# WORK OF THE HEALTH VISITORS, AND SUPERVISION OF MIDWIVES.

## WORK OF THE LADY HEALTH VISITORS.

The work of the Health Visitors previously described has been continued, and the figures below give the result of their inquiries. The death rates are not comparable with the rates given elsewhere for the Borough for the year 1909, as the Health Visitors' figures are confined to infants born during 1908, and watched until they are 12 months old.

### FEEDING OF INFANTS BORN IN 1908, VISITED AND WATCHED BY THE HEALTH VISITORS.

|   | Number of<br>Births. | Number of<br>Deaths. | Rate<br>per 1,000.<br>Births. |
|---|----------------------|----------------------|-------------------------------|
| Breast and other food<br>from Birth ..... | 280                  | 80                   | 285·7                         |
| Breast 1 month ..... }                    | 20                   | 6                    | 300·0                         |
| Other Food 5 months }                     |                      |                      |                               |
| Breast 2 months ..... }                   | 7                    | 2                    | 285·7                         |
| Other Food 4 months }                     |                      |                      |                               |
| Breast 3 months ..... }                   | 24                   | 6                    | 250·0                         |
| Other Food 3 months }                     |                      |                      |                               |
| Breast 4 months ..... }                   | 20                   | 3                    | 150·0                         |
| Other Food 2 months }                     |                      |                      |                               |
| Breast 5 months ..... }                   | 16                   | 2                    | 125·0                         |
| Other Food 1 month }                      |                      |                      |                               |
| Breast alone.....                         | 2880                 | 328                  | 113·9                         |
| Other Food entirely...                    | 235                  | 74                   | 314·9                         |
| Child died at Birth.....                  | 41                   | 41                   | 1000·0                        |
| Totals .....                              | 3526                 | 542                  | 153·7                         |

DEATHS OF INFANTS UNDER ONE YEAR, BORN DURING THE YEAR 1908, AMONG THOSE VISITED  
AND WATCHED BY THE HEALTH VISITORS.

| Cause of Death.     | Under 1<br>Month. | Over 1<br>and<br>Under 2<br>Months. | Over 2<br>and<br>Under 3<br>Months. | Over 3<br>and<br>Under 4<br>Months. | Over 4<br>and<br>Under 5<br>Months. | Over 5<br>and<br>Under 6<br>Months. | Over 6<br>and<br>Under 7<br>Months. | Over 7<br>and<br>Under 8<br>Months. | Over 8<br>and<br>Under 9<br>Months. | Over 9<br>and<br>Under 10<br>Months. | Over 10<br>and<br>Under 11<br>Months. | Over 11<br>and<br>Under 12<br>Months. | Total. | Rate per<br>1,000<br>Births. |
|---------------------|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--------|------------------------------|
| Premature Birth ... | 43                | 4                                   | 3                                   | ...                                 | 2                                   | ...                                 | ...                                 | ...                                 | 1                                   | ...                                  | ...                                   | ...                                   | 53     | 15·0                         |
| Congentl. Malform.  | 4                 | 1                                   | ...                                 | ...                                 | 1                                   | ...                                 | 2                                   | ...                                 | ...                                 | ...                                  | ...                                   | ...                                   | 8      | 2·3                          |
| Debility & Atrophy. | 40                | 16                                  | 11                                  | 9                                   | 8                                   | 7                                   | 1                                   | 2                                   | 3                                   | 2                                    | 1                                     | 1                                     | 101    | 28·6                         |
| Lung Disease .....  | 8                 | 10                                  | 8                                   | 10                                  | 7                                   | 3                                   | 11                                  | 14                                  | 13                                  | 7                                    | 11                                    | 11                                    | 113    | 32·0                         |
| Tubercular Disease  | ...               | 3                                   | 2                                   | 1                                   | 3                                   | 4                                   | 4                                   | 1                                   | 2                                   | 5                                    | 2                                     | 1                                     | 28     | 7·9                          |
| Enteritis .....     | ...               | 3                                   | 4                                   | 3                                   | 3                                   | 2                                   | ...                                 | ...                                 | ...                                 | ...                                  | 1                                     | ...                                   | 16     | 4·5                          |
| Diarrhoea .....     | 3                 | 6                                   | 19                                  | 8                                   | 16                                  | 12                                  | 5                                   | 8                                   | 3                                   | 2                                    | 1                                     | 3                                     | 86     | 24·3                         |
| Convulsions .....   | 8                 | 3                                   | 3                                   | 4                                   | 3                                   | 1                                   | 1                                   | 1                                   | ...                                 | ...                                  | ...                                   | ...                                   | 24     | 6·8                          |
| Measles .....       | ...               | ...                                 | ...                                 | ...                                 | ...                                 | ...                                 | 2                                   | 2                                   | ...                                 | 7                                    | 4                                     | 4                                     | 19     | 5·3                          |
| Whooping Cough...   | ...               | 2                                   | 1                                   | 2                                   | ...                                 | 1                                   | 2                                   | 2                                   | 1                                   | ...                                  | 1                                     | ...                                   | 12     | 3·1                          |
| Overlaid .....      | 5                 | 1                                   | ...                                 | ...                                 | 1                                   | ...                                 | ...                                 | ...                                 | ...                                 | ...                                  | ...                                   | ...                                   | 7      | 2·0                          |
| Other Causes .....  | 19                | 7                                   | 2                                   | 5                                   | 10                                  | 9                                   | 6                                   | 5                                   | 3                                   | 3                                    | 3                                     | 3                                     | 75     | 21·2                         |
| Totals.....         | 130               | 56                                  | 53                                  | 42                                  | 54                                  | 39                                  | 34                                  | 35                                  | 26                                  | 26                                   | 24                                    | 23                                    | 542    | 153·7                        |

Total Number of Infants—2 526

Among the 3,526 children observed, there were 117 illegitimate children; of these 31 died, 28 removed out of the district, and were lost sight of, and 58 lived to the age of 12 months. The Health Visitors, who are partly paid by the Ladies' Public Health Society and partly by the Corporation have continued the work (which was set out in detail in a previous report), of educating mothers in the proper care of their infants, and making general sanitary inspections. This work has been supervised by the Lady Superintendents, who so kindly give their services for this purpose, and by Miss Leresche, the Lady Inspector, who has special charge of this work. The work done in connection with ordinary Sanitary Inspection is detailed in the following table.

WORK OF HEALTH VISITORS FOR YEAR 1909.

| Districts.           | No. of Cottages<br>in District. | Total No. of<br>Visits. | Houses Dirty. | Houses<br>Dilapidated. | Houses<br>Overcrowded. | Houses Limewashed | Sanitary Nuisances. | No. of Complaints<br>forwarded to<br>Health Department |
|----------------------|---------------------------------|-------------------------|---------------|------------------------|------------------------|-------------------|---------------------|--|
| St. Simon's .....    | 1389                            | 3369                    | 152           | 2                      | 8                      | 196               | 13                  | 17   |
| Silk Street.....     | 1390                            | 4774                    | 415           | 8                      | 14                     | 104               | 165                 | 94   |
| Greengate .....      | 1449                            | 3943                    | 262           | 1                      | 10                     | 67                | ...                 | 12   |
| Adelphi .....        | 1065                            | 3426                    | 150           | 4                      | 9                      | 134               | 244                 | 258  |
| Ellor Street .....   | 3188                            | 4114                    | 28            | 17                     | 22                     | 391               | 34                  | 88   |
| Ordsall .....        | 2396                            | 4018                    | 263           | 16                     | 11                     | 243               | 125                 | 122  |
| Cross Lane .....     | 2183                            | 4461                    | ...           | ...                    | 5                      | 92                | 168                 | 173  |
| Docks.....           | 1473                            | 3834                    | 512           | 13                     | 1                      | 398               | 142                 | 35   |
| Regent Road .....    | 2170                            | 4342                    | 69            | 11                     | 3                      | 227               | 27                  | 23   |
| Whit Lane.....       | 3251                            | 4383                    | 190           | 5                      | ...                    | 119               | 207                 | 40   |
| Higher Broughton ... | 1877                            | 3264                    | 143           | 19                     | 4                      | 38                | 122                 | 37   |
| Lower Broughton ...  | 2074                            | 4817                    | 105           | 18                     | 4                      | 182               | 154                 | 133  |
| Totals.....          | 23905                           | 48745                   | 2289          | 114                    | 91                     | 2191              | 1401                | 1032   |



## MIDWIVES ACT.

There are 51 midwives on the register practising in Salford. These are regularly visited, and their books, instruments, &c., inspected by the Lady Inspector under the supervision of the Medical Officer of Health, and midwives are encouraged to consult with the Medical Officer of Health when cases of difficulty arise. One midwife removed from the district, one discontinued practice, and one died, and two were newly registered. The total number of Births during 1909 was 6,778; 4,905 of these, or 72·4 per cent., were attended by midwives, and 1,873, or 27·6 per cent., by medical practitioners. There were 26 cases of puerperal fever notified during the year, of which 10 occurred in the practice of midwives. In two of the cases, an ex-midwife was concerned (one whose name had been removed from the Roll of Midwives). These were brought before the Magistrate, and the women fined 21s. and costs. There was no evidence in any of the other cases to lead to the belief that carelessness or ignorance on the part of the midwife had caused the disease.

515 notifications of calling in medical practitioners have been received, the causes being the following :—

|                             |    |
|-----------------------------|----|
| Postpartum Hæmorrhage ..... | 17 |
| Abnormal Presentations..... | 47 |
| Inertia of Uterus .....     | 16 |
| Deformed Pelvis .....       | 7  |
| Ruptured Perineum .....     | 63 |
| Rise of Temperature .....   | 47 |
| Accidental Hæmorrhage ..... | 19 |
| Placenta Prævia .....       | 4  |

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*Forward*..... 220

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|                                |            |
|--------------------------------|------------|
| <i>Forward</i> .....           | 220        |
| Retained Placenta .....        | 33         |
| Eclampsia .....                | —          |
| Tedious Labour .....           | 76         |
| Premature Birth .. .....       | 45         |
| Miscarriage and Abortion ..... | 23         |
| Ophthalmia Neonatorum .....    | 11         |
| Retained Membranes.....        | 16         |
| Other Causes .....             | 91         |
| Total .....                    | <u>515</u> |

139 notifications of stillbirths were also received during the year 1909 from midwives.





SECTION VI.

GENERAL WORK OF THE HEALTH  
DEPARTMENT.



## SECTION VI.

# GENERAL WORK OF THE HEALTH DEPARTMENT.

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The staff of the Department consists of an Assistant Medical Officer, a Veterinary Surgeon, and 17 Inspectors, including three Lady Inspectors. There are also 12 Health Visitors working jointly with this Department and the Ladies' Public Health Society.

### **Systematic Inspection and Abatement of Nuisances.—**

The systematic inspection of the Borough was conducted during the year 1909, on the same lines as in previous years. The result of the inspections may be gathered from a perusal of the "Register of Work Done," which is to be found at the end of this section of the report. It shows that the number of complaints received at the office of the Department was 3,376, as compared with 3,542 received in 1908, also that 11,399 dwelling-houses were inspected during the year. The details of each section of the work will be found under the special heading.

### **Housing of the Working Classes.**

The demolition, or remodelling, of back to back houses, has been steadily carried on during the year. Closing Orders were issued by the Borough Council in respect of 87 houses. 138 houses were remodelled and made satisfactory, 554 new houses have been erected in the



Borough during the year, and 52 have been demolished. In 1901 there were 2,858 back to back houses ; of these, 2,529 have been remodelled or demolished, leaving 329 still to be dealt with.

### **Alteration of Privy Middens and Pail Closets to Water Closets.**

This alteration under the 1899 Salford Corporation Act, has been steadily progressing. During the year 406 pail closets have been altered to water closets, and the Corporation has contributed £2 per closet towards the cost of these alterations. 1,818 privy middens have also been converted to water closets entirely at the expense of the owners of the property. Since this work commenced 18,668 privy middens and 4,258 pail closets have been converted or demolished, so that, whereas, in 1899 there were 8,845 pail closets, 20,750 privy middens, and 15,200 water closets, at the close of 1909, the numbers were :—

2,082 Privy Middens.  
4,587 Pail Closets.  
40,108 Water Closets. (554 at new houses).

**Common Lodging Houses.**—There were 31 Common Lodging Houses on the Register at the end of the year, including the Model Lodging House in Bloom Street, five are in the Crescent Ward, twelve in Islington, one in Ordsall, one in St. Matthias, one in St. Paul's, three in St. Thomas', and eight in Trinity Wards. These houses contain 200 rooms, with 1,207 beds. The average number of beds occupied per night were 957 beds for

males and 8 for females. 1,737 inspections were made during the day time and 44 in the night time. Two applications for registration were refused, as the premises were unsuitable for use as Common Lodging Houses.

These Lodging Houses have been kept in good and clean condition during the year, and the Bye-laws have been observed. There are some houses registered, which are unsuitable for their purpose, but unfortunately, so long as the keepers avoid offences against the Bye-laws, there is no legal power to revise the register. The Lodging House accommodation is ample for the needs of the Borough, and no overcrowding has taken place. There were four prosecutions for non-compliance with the Bye-laws, and fines to the amount of 27s. 6d. and costs were imposed. Part V. of the Public Health Acts Amendment Act, 1907, relating to Common Lodging Houses, came in force in the Borough of Salford on the 16th October, 1909.

### **Houses Sub-let in Lodgings.**

There are 227 houses let in apartments in the Borough; these contain 1,308 rooms. 55 houses were registered during the year, and 52 were discontinued. The houses referred to under this heading, are houses of a rent of £16 per annum or less, in which, not less than two lodgers are accommodated. It also includes houses which are let off in rooms to various tenants, and in that case, some houses of larger rental come under the regulations. The registration of these houses gives us power to inspect them at any time. They have been inspected from time to time, and they have received 1,251 inspections in the day time, and 78 inspections at night. An

improved code of Bye-laws would assist in bettering the condition of these houses. There were 14 prosecutions for allowing Sub-let Houses to be overcrowded, and fines amounting to 40s. and costs were imposed ; there was also one prosecution for keeping an unregistered Sub-let House, and a fine of 5s. and costs was inflicted.

### **Seamen's Lodging Houses.**

There are 20 Seamen's Lodging Houses in the Borough, containing 90 rooms and 244 beds ; this is two less than last year. There have been 29 applications for renewals and new licenses, five of these have been refused, and four have been given up during the year. The Bye-laws in force regulating these houses have been carried out, and the houses generally kept in good and clean condition. 1,132 visits have been made during the day-time, and seven visits during the night-time. Unfortunately in the neighbourhood of the Docks, where these houses are required, the property existing at the time of the completion of the Ship Canal was generally small, and consequently not well suited to the purpose of Seamen's Lodging Houses. No houses have been erected specially for this purpose.

### **Workshops.**

The inspection of the workshops in the Borough has been carried on by the District Inspectors and the Lady Inspector of Workshops. In matters of cleanliness there is still great room for improvement ; many defects in this respect have been found, and in each case the tenant of the workshop has been cautioned. There have been several cases of overcrowding during the year, and there is still too little attention paid to the more important matter of ventilation.



**Re Outworkers.**—The women outworkers' premises are visited by the Lady Inspector of Workshops, and those of the men by the District Inspectors. This year the number of wrong addresses sent has been excessive, and in consequence much time has, of necessity, been wasted in ascertaining the correct addresses. Where a mistake of this kind has occurred, the outworker has been asked to see that the correct address is noted in the books of his or her employer. Where infectious diseases and phthisis have occurred in outworkers' dwellings, the usual precautions, with respect to the prevention of the infection of the work, have been taken.

**Restaurant Kitchens.**—During the year 504 inspections of these places have been made by the Lady Inspector of Workshops, in order to ascertain how far it would be beneficial for such places to be under inspection. It was found that in the majority of cases the ventilation was inadequate, and in many others the lighting and general sanitation was poor.

## **Factories, Workshops, Workplaces, and Homework.**

### **A.—Inspection.**

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR  
INSPECTORS OF NUISANCES DURING THE YEAR 1909.

| Premises.<br>(1)  | Number of           |                            |                           |
|---|---------------------|----------------------------|---------------------------|
|   | Inspections.<br>(2) | Written<br>Notices.<br>(3) | Prosecu-<br>tions.<br>(4) |
| Factories .....<br>(Including Factory Laundries).   | 9                   | ...                        | ...                       |
| Workshops .....<br>(Including Workshop Laundries).  | 2367                | 71                         | ...                       |
| Workplaces .....<br>(Other than Outworkers' premises in-<br>cluded in Part 3 of this Report). | 504                 | ...                        | ...                       |
| Total.....  | 2880                | 71                         | ...                       |

B.—Defects Found.

| Premises.<br><br>(1)  | Number of Defects. |                      |  | Number<br>of<br>Prosecutions.<br><br>(5) |
|---|--------------------|----------------------|--|--|
|   | Found.<br><br>(2)  | Remedied.<br><br>(3) | Referred to<br>H.M.<br>Inspector.<br><br>(4) |  |
| <i>Nuisances under the Public Health Acts—*</i>   |                    |                      |  |  |
| Want of cleanliness .....   | 69                 | 69                   | ...  | ...                                      |
| Want of ventilation .....   | 17                 | 17                   | ...  | ...                                      |
| Overcrowding .....  | 6                  | 6                    | ...  | ...                                      |
| Want of drainage of floors .....  | 1                  | 1                    | ...  | ...                                      |
| Other nuisances .....   | 28                 | 28                   | ...  | ...                                      |
| Sanitary accommodation } insufficient .....   | 16                 | 16                   | ...  | ...                                      |
| Sanitary accommodation } unsuitable or defective .....  | 53                 | 50                   | ...  | ...                                      |
| Sanitary accommodation } not separate for sexes .....   | 7                  | 7                    | ...  | ...                                      |
| <i>Offences under the Factory and Workshop Act—</i>   |                    |                      |  |  |
| Illegal occupation of underground bakehouse<br>(s. 101) .....   | 1                  | 1                    | ...  | ...                                      |
| Breach of special sanitary requirements for<br>bakehouses (ss. 97 to 100) .....                                 | 39                 | 39                   | ...  | ...                                      |
| Other offences (excluding offences relating to<br>outwork which are included in Part 3 of<br>this Report) ..... | 1                  | 1                    | ...  | ...                                      |
| Total .....   | 238                | 235                  | ...  | ...                                      |

\*Including those specified in sections 2, 3, 7, and 8, of the Factory and Workshop Act as remediable under the Public Health Acts.

C.—Home Work.

| NATURE OF WORK.               | OUTWORKERS' LISTS, SECTION 107. |               |                           |        |               |  |   |   |  |                        | Number of Inspections of Outworkers' premises. | OUTWORK IN UNWHOLE-SOME PREMISES, SECTION 108. |                 |               | OUTWORK IN INFECTED PREMISES, SECTIONS 109, 110. |                      |                            |           |
|-------------------------------|---------------------------------|---------------|---------------------------|--------|---------------|--|---|---|--|------------------------|--|--|-----------------|---------------|--|----------------------|----------------------------|-----------|
|                               | Lists received from Employers.  |               |                           |        |               | Number of Addresses of Outworkers received from other Authorities. | Number of Addresses of Outworkers forwarded to other Authorities. | Notices served on Occupiers as to keeping or sending lists. | Prosecutions.                                  |                        |  | Instances.                                     | Notices served. | Prosecutions. | Instances.                                       | Orders made, S. 110. | Prosecutions, S. 109, 110. |           |
|                               | Sending twice in the year.      |               | Sending once in the year. |        |               |  |   |   | Failing to keep or permit inspection of lists. | Failing to send lists. |  |  |                 |               |  |                      |                            |           |
|                               | Lists.                          | Con-tractors. | Work-men.                 | Lists. | Con-tractors. |  |   |   |  |                        |  |  |                 |               |  |                      |                            | Work-men. |
|                               |                                 |               |                           |        |               |  |   |   |  |                        |  |  |                 |               |  |                      |                            |           |
| (1)                           | (2)                             | (3)           | (4)                       | (5)    | (6)           | (7)  | (8)   | (9)   | (10)   | (11)                   | (12)   | (13)   | (14)            | (15)          | (16)   | (17)                 | (18)                       | (19)      |
| Wearing Apparel—              |                                 |               |                           |        |               |  |   |   |  |                        |  |  |                 |               |  |                      |                            |           |
| 1. Making, &c. ....           | 6                               | 5             | 5                         | 2      | 24            | 4  | 450   | 21  | ..   | ..                     | ..   | 436  | 43              | ..            | ..   | 6                    | ..                         | ..        |
| 2. Cleaning and washing.      | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Lace, lace curtains and nets. | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Artificial flowers .....      | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Nets, other than wire nets.   | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Tents .....                   | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Sacks .....                   | ..                              | ..            | ..                        | 1      | ..            | 47   | 4   | 46  | ..   | ..                     | ..   | 5  | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Furniture and upholstery ..   | ..                              | ..            | ..                        | ..     | ..            | ..   | 3   | ..  | ..   | ..                     | ..   | 3  | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Fur pulling .....             | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Feather sorting .....         | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | 21   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Umbrellas, &c. ....           | ..                              | ..            | ..                        | ..     | ..            | ..   | 21  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Carding, &c., of buttons, &c. | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Paper bags and boxes .....    | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | 1  | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Basket making .....           | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Brush making .....            | 2                               | ..            | 2                         | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Racquet and tennis balls ..   | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Stuffed toys .....            | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| File making .....             | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Electro plate .....           | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Cables and chains .....       | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Cart gear .....               | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Locks, latches and keys ..    | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Anchors and grapnels .....    | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Pea picking .....             | ..                              | ..            | ..                        | ..     | ..            | ..   | ..  | ..  | ..   | ..                     | ..   | ..   | ..              | ..            | ..   | ..                   | ..                         | ..        |
| Total .....                   | 8                               | 5             | 7                         | 3      | 24            | 51   | 478   | 67  | ..   | ..                     | ..   | 466  | 43              | ..            | ..   | 6                    | ..                         | ..        |



D.—Registered Workshops.

| Workshops on the Register (s. 131) at the end of the year.<br>(1) | Number.<br>(2) |
|---|----------------|
| Tenement Workshops .....  | 16             |
| Domestic Workshops .....  | 187            |
| Laundries .....   | 25             |
| Workshop Bakehouses .....   | 301            |
| Other Workshops .....   | 555            |
| Total number of Workshops on Register.....                        | 1084           |

E.—Other Matters.

| Class.<br>(1)   | Number.<br>(2) |
|---|----------------|
| Matters notified to H.M. Inspector of Factories—  |                |
| Failure to affix abstract of the Factory and Workshop Act (s. 133)  | 20             |
| Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s. 5). | 55             |
| Notified by H.M. Inspector...   |                |
| Reports (of action taken) sent to H.M. Inspector .....  | 35             |
| Other .....   | 7              |
| Underground Bakehouses (s. 101)—  |                |
| Certificates granted during the year.....   | ...            |
| In use at the end of the year .....   | 10             |

F.—ADDITIONAL SANITATION FOR RETAIL BAKEHOUSES,  
SECTIONS 97—102.

Number of such premises in the district, 301.

Note to their sanitary condition. Ground floor bakehouses—Good.

Underground— „ —Satisfactory.

Action taken as to retail bakehouses in 1909, 39.

| Action taken.                       | No. of Defects found. | Notices served. | Legal Proceedings | Defects remedied. | Remarks. |
|-------------------------------------|-----------------------|-----------------|-------------------|-------------------|----------|
| As to Closets, &c., Sec. 97 . . . . | 1                     | ..              | ..                | 1                 |          |
| As to Water Cisterns, Sec. 97 ..    | ..                    | ..              | ..                | ..                |          |
| As to Drain Openings, Sec. 97..     | 1                     | ..              | ..                | 1                 |          |
| As to Limewashing, &c., Sec. 97.    | 36                    | 10              | ..                | 36                |          |
| As to Sleeping Places, Sec. 100..   | 1                     | ..              | ..                | 1                 |          |

Any proceedings under Section 98 as to retail bakehouses sanitarily unfit, Nil,

UNDERGROUND BAKEHOUSES.

Number of such premises in district, 10 certified.

Number certified by District Council under Section 101 (2) in 1909, Nil.

BAKEHOUSES, 1909.

|   |     |
|---|-----|
| Registered .....  | 301 |
| Added to Register .....                                       | 70  |
| Discontinued .....  | 64  |
| Number of Underground Bakehouses Certified by Authority ..... | 10  |
| Total Number of Ovens.....                                    | 383 |
| Employees—Males .....   | 227 |
| Females .....   | 166 |
| Notices Served .....  | 10  |

**Milkshops.**—There were 658 milkshops on the register at the end of 1909. 67 were discontinued during the year, and 89 newly registered. 1,248 visits were made during the year. Three cases of scarlet fever occurred in milkshops during 1909. These were removed to the Sanatorium, and precautions taken to prevent the spread of the disease.

**Sale of Food and Drugs.**—898 samples have been purchased for analysis during the year, and 5 or 0.56 per cent. of those proved to be adulterated. 400 of these samples were obtained in an unofficial manner, in order to find out fraudulent dealers, especially in the sale of butter and margarine. The only adulteration was found in milk, 1.25 per cent. of the samples being adulterated. One farmer and a retailer were prosecuted in Salford, the former was fined 50s. and costs, and the latter 10s. and costs, a third was cautioned, and the remaining two were prosecuted in Manchester.

Speaking generally, although the actual cases of adulteration have been very few, milk during the year appears to have been lower in quality than usual, and this is said to be due to the unfavourable weather conditions prevailing throughout the year. At the Ladywell Hospital, the milk contract requires, that the fat shall not be less than 3 per cent. during the months of March, April, May and June, and 3.75 per cent. during the rest of the year. The dealer, supplying the Hospital, has had unusual difficulty in finding farmers, who could maintain this standard, although, the same dealer and farms have easily met our requirements in previous years.



**Shop Hours Acts.**—491 visits have been paid to shops in the Borough during the year. 9 shopkeepers were found to be employing young persons, without having a copy of the Abstract of the Shop Hours Act affixed; in each case the shopkeeper was cautioned and the Abstract was obtained and duly affixed.

The Barbers' Shops are subject to a special Closing Order, and this appears to have been generally well observed. Four barbers and hairdressers were prosecuted for remaining open after hours; two were fined 5s. and costs and 1s. and costs, and in the remaining cases the summonses were withdrawn on payment of costs.

### **Smoke Nuisance.**

Particulars as to smoke nuisances caused by firms during the year 1909, and dealt with by the Health Committee :—

36 notices were issued under the Public Health Act.

16 firms were summoned by the Health Committee for smoke nuisance during the year 1909, and fined in the aggregate £17.

During the year 1909, 4,304 smoke observations have been made, as against 4,250 in the year 1908, and 3,906 in the year 1907. 594 stokers and others, were cautioned by the Inspector, for negligence in firing the furnaces under their charge; at the same time, 70 firms were reported to, and dealt with by, the Health Committee; also 594 cautionary notices were issued to firms with a table of smoke observations taken from their chimneys.

TABLE SHOWING THE NUMBER OF HALF-HOURLY OBSERVATIONS  
TAKEN DURING THE YEAR 1909.

| Minutes of Black Smoke emitted<br>in half-an-hour. | No. of<br>Observations<br>taken. | Percentage<br>to<br>Total. |
|--|----------------------------------|----------------------------|
| No Black Smoke .....                               | 1929                             | 44·8                       |
| One Minute .....                                   | 1491                             | 34·6                       |
| Two Minutes .....                                  | 410                              | 9·5                        |
| Three Minutes .....                                | 404                              | 9·4                        |
| Over Three Minutes .....                           | 70                               | 1·7                        |
| Total Observations taken .....                     | 4304                             | 100·0                      |

**Manure Receptacles and Removal of Manure and Other Offensive Matter.**—The following Bye-laws with respect to receptacles for manure and the weekly removal of manure, soil, filth, or other offensive or noxious matter, were made by the Borough Council, on October 6th, 1909, and allowed by the Local Government Board, on November 20th, 1909.

COUNTY BOROUGH OF SALFORD.

BYE-LAWS WITH RESPECT TO RECEPTACLES FOR  
MANURE, &C.

At a Meeting of the Council of the County and Municipal Borough of Salford, held at the Council Chamber in the Town Hall, Salford, aforesaid on the sixth day of October, 1909, in pursuance of Notice duly given and Summons duly served.

Whereas Section 44 of the Public Health Act, 1875, provides (inter alia) that an Urban Authority may make Bye-laws for the prevention of the keeping of animals on any premises so as to be injurious to health.

Now Therefore, the said Mayor, Aldermen and Burgesses of the County and Municipal Borough of Salford, acting by the Council, such Council being the Urban Authority in and for the said County and Municipal Borough, being duly met and assembled together, and two-thirds of the whole number of the Council now being present, Do Hereby, under or by virtue and in pursuance of the powers to them for that purpose given by the said Act and of every other power enabling them in that behalf, make the following Bye-laws, namely :—

1.—Every occupier of a building or premises wherein or whereon any horse or other beast of draught or burden or any cattle or swine may be kept, shall provide in connection with such building or premises, a suitable receptacle for dung, manure, soil, filth or other offensive or noxious matter, which may from time to time be produced in the keeping of any such animal in such building or upon such premises.

He shall cause such receptacle to be constructed so that the bottom or floor thereof shall not in any case be lower than the surface of the ground adjoining such receptacle.

He shall also cause such receptacle to be constructed in such a manner and of such materials and to be maintained at all times in such a condition as to prevent any escape of the contents thereof, or any soakage therefrom into the ground or into the wall of any building.

He shall likewise provide in connection with such building or premises a sufficient drain constructed in such a manner and of such materials and maintained at all times in such a condition as to effectually convey all urine or liquid filth or refuse therefrom into a sewer, cesspool or other proper receptacle.



He shall, once at least in *every week*, remove or cause to be removed from the receptacle, provided in accordance with the requirements of this Bye-law, all dung, manure, soil, filth, or other offensive or noxious matter produced in or upon such building or premises, and deposited in such receptacle.

2.—Every person who shall offend against any of the foregoing Bye-laws shall be liable for every such offence to a penalty of £5, and in the case of a continuing offence to a further penalty of 40s. for each day after written notice of the offence from the Council.

Provided nevertheless, that the Justices or Court before whom any complaint may be made or any proceedings may be taken in respect of any such offence, may, if they think fit, adjudge the payment as a penalty of any sum less than the full amount of the penalty imposed by this Bye-law.

The Common Seal of the Mayor, Aldermen, and Burgesses of the County Borough of Salford was, in pursuance of a Resolution of the Council in that behalf, hereunto affixed this 20th day of October, 1909, in the presence of

L. C. EVANS,

Town Clerk.

Allowed by the Local Government Board this  
twentieth day of November, 1909.

L. S.

S. B. PROVIS,

Secretary,

Acting on behalf of the said Board under the authority of their General Order, dated the twenty-sixth day of May, 1877.

**Offensive Trades.**—The following is a list of the offensive trades in the Borough.

| Nature of Trades.     | Borough. | Discontinued. | Newly Registered. |
|-----------------------|----------|---------------|-------------------|
| Tripe Dressing .....  | 9        | ...           | ...               |
| Soap Works .....      | 3        | ...           | ...               |
| Oil and Tallow .....  | 1        | ...           | ...               |
| Tanneries .....       | 1        | ...           | ...               |
| Varnish and Tar ..... | 3        | ...           | ...               |
| Skin Mat Makers ..... | 2        | ...           | ...               |
| Rubber Works .....    | 5        | ...           | ...               |
| Gut Scrapers .....    | 3        | ...           | ...               |
| Total .....           | 27       | ...           | ...               |

One application was made for the registration of certain premises for gut scraping, but the application was not entertained.

### **Canal Boats Acts.**—

|   |      |
|---|------|
| Number of canal boats inspected.....                      | 1227 |
| Number of canal boats conforming to Acts .....            | 1067 |
| Number of canal boats with one or more infringements..... | 160  |
| Total number of infringements.....                        | 235  |
| Registration .....  | —    |
| Notification of change of master .....                    | —    |
| Absence of certificates .....                             | 30   |
| Marking .....   | 21   |
| Overcrowding .....  | 7    |
| Separation of sexes .....                                 | 14   |
| Cleanliness .....   | 65   |

---

|  |    |
|--|----|
| Ventilation .....                            | 4  |
| Ventilators obstructed .....                 | 4  |
| Painting.....                                | 6  |
| Provision of water vessel .....              | 14 |
| Removal of bilge water.....                  | —  |
| Boats defective and leaking .....            | 55 |
| Admittance of Inspector .....                | —  |
| Notification of infectious disease .....     | —  |
| Dilapidation .....                           | 15 |
| Certificates not identifying owners .....    | —  |
| Loading manure without tight bulkheads ..... | —  |
| Number of notices served .....               | 25 |

Other steps taken to secure compliance :—5 letters were written to the owners, and 75 calls were made on owners.

Detention of boats for cleansing and disinfection—none.

Legal proceedings were taken in six instances as follows :—

For overcrowding, Masters fined 20s. and costs (27s. 6d.) and 1s. 6d. and costs (4s. 6d.)

For non-separation of sexes, Masters fined 20s. and costs (27s. 6d.), and 1s. 6d. and costs (4s. 6d.)

For dirty cabin, Masters fined 5s. and costs (8s.), and 10s. and costs (13s.)

Number of boats on register. Not a Registration Authority.

Canal boats registered to carry ..... 4788

Men found on the boats ..... 1874

Women found on the boats ..... 689

Children under 12 years found on the boats. 632

Surprise visits were made at 6 a.m. to 25 canal boats, for the detection of non-separation of sexes and over-



crowding. During the year a man and woman were found to be suffering from ptomaine poisoning, but they afterwards recovered.

**Drainage Inspection.**—The testing and examination of all existing drainage is carried out by this Department. Three Inspectors and four labourers are kept continually at work examining drainage, and the following table gives the detailed results of their labours :—

|   |      |
|---|------|
| Number of tests made .....                | 1016 |
| „ applications from householders .....    | 59   |
| „ houses affected by the tests .....      | 2510 |
| „ notices and reports issued .....        | 572  |
| „ notices and reports complied with ..... | 561  |
| „ drain inlets opened and cleared .....   | 1224 |

#### INSANITARY CONDITIONS FOUND.

##### Defects.

|   |     |
|---|-----|
| Number of drains wholly and partly choked .....                     | 468 |
| „ drains defectively constructed .....                              | 785 |
| „ gully traps badly laid .....                                      | 185 |
| „ drains defectively trapped.....                                   | 88  |
| „ waste pipes defectively trapped or connected<br>to drains .....   | 30  |
| „ downspouts connected to drains .....                              | 103 |
| „ soil pipes with leaking joints or defectively<br>ventilated ..... | 51  |
| „ defective water closets .....                                     | 89  |

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Total defects..... 1799

#### RECONSTRUCTION OF DRAINS AND THE CONSTRUCTION OF NEW DRAINS.

|                                |      |
|--------------------------------|------|
| Number of tests applied .....  | 4134 |
| „ houses affected .....        | 3883 |
| „ passage drains (tests) ..... | 70   |

**Mode Wheel Ambulance and Disinfecting Station.**

**Staff.**—The work of this Department is supervised by an Inspector, who devotes part of his time only to this work. Under his control there are seven drivers, one of whom is resident at the Station, five disinfectors, one of whom attends to the steam disinfecting machine, and two labourers who clean the public conveniences in the Borough. There are six horses, four ambulances, and four bedding vans. The disinfecting machine is a large Goddard, Massey and Warner's high pressure stove. The following are the details of the work carried out during the year :—

**Salford Cases.**—1,787 journeys were made by the ambulances ; 775 journeys were made for the removal of infected bedding and clothing. 2,872 houses were disinfected, involving the disinfection of 6,516 rooms. 5,466 bundles of clothing were disinfected by steam at the Station.

**Out-District Cases.**—422 journeys were made by the ambulances ; 46 journeys were made for the removal of infected bedding and clothing ; 420 bundles of clothing have been disinfected by steam at the Station. 11 journeys were also made for the removal of cases coming under the jurisdiction of the Port Sanitary Authority ; disinfection has been carried out on 8 ships stationed at the Manchester Ship Canal, and 23 bundles of clothing and bedding have been disinfected. 72 journeys were made for the removal of convalescent cases from the Ladywell Sanatorium to their homes.

5 contacts with infectious disease were bathed and their clothing disinfected. Disinfection has been carried out at 8 schools in the Borough during the year. A large number of books from private libraries have been disinfected and returned.

12 midwives were bathed at the Station, and their clothing and various instruments disinfected.

**Sanitary Conveniences.**—There are 18 conveniences in the Borough, under the control of the Health Committee situated :—

Trinity Market, Salford.  
Liverpool Street, Salford.  
Broughton Lane, Broughton.  
Trafford Road, Salford.  
Pack Horse, Bolton Road, Pendleton.  
Whit Lane, Pendleton.  
Windsor Bridge, Salford.  
Blucher Street, Salford.  
Crescent, Salford.  
Stevenson Street, Salford.  
The Cliff, Broughton.  
Park Lane, Broughton.  
Broad Street, Pendleton.  
Greengate Arch, Salford.  
Everard Street, Salford.  
Eccles New Road, Weaste.  
Broughton Bridge.  
Frederick Road, Pendleton.

There are also two other conveniences, not under the control of the Health Committee, which are cleansed regularly by the Department.

The erection of further public conveniences has been under consideration by the Health Committee, and several important additions will be made in 1910.



TABLE G.1.  
COMMON LODGING-HOUSES, 1909.

| WARDS.  | Crescent. | Islington. | Ordsall. | St. Matthias'. | St. Paul's. | St. Thomas'. | Trinity. | TOTAL. |
|---|-----------|------------|----------|----------------|-------------|--------------|----------|--------|
| Number on Register .....                          | 5         | 12         | 1        | 1              | 1           | 3            | 8        | 31     |
| Number added to Register in 1909 .                | ..        | ..         | ..       | ..             | ..          | ..           | ..       | ..     |
| ,, removed from   ,,   ,, .                       | ..        | ..         | ..       | ..             | ..          | ..           | 1        | 2*     |
| Number of Rooms .....                             | 38        | 63         | 9        | 7              | 7           | 18           | 58       | 200    |
| ,, Beds .....                                     | 183       | 537        | 40       | 34             | 32          | 88           | 293      | 1207   |
| Average Number occupied each<br>night—Males ..... | 129       | 456        | 16       | 22             | 15          | 63           | 256      | 957    |
| Females .....                                     | ..        | 7          | ..       | ..             | ..          | ..           | 1        | 8      |
| Notices served on Landlords .....                 | 1         | 7          | ..       | 2              | ..          | ..           | 9        | 19     |
| ,,       ,,   Keepers.....                        | ..        | 1          | ..       | ..             | ..          | 3            | 2        | 6      |
| Number of Day Inspections .....                   | 238       | 670        | 48       | 56             | 48          | 130          | 580      | 1770   |
| ,, Night       ,,       .....                     | 10        | 6          | ..       | 4              | ..          | 6            | 18       | 44     |

\*Including one in Trafford Ward.

TABLE G.2.

SAMPLES COLLECTED BY THE INSPECTOR UNDER THE "SALE OF FOOD  
AND DRUGS ACT," FROM 1875 TO 1909.

|         | Total. | Milk. | Butter. | Bread<br>and<br>Flour. | Drugs. | Gro-<br>ceries. | Beer<br>and<br>Porter. | Wines<br>and<br>Spirits. | S'ndries |
|---------|--------|-------|---------|------------------------|--------|-----------------|------------------------|--------------------------|----------|
| 1875... | 60     | 37    | 1       | 1                      | 1      | ...             | 7                      | 4                        | 9        |
| 1876... | 119    | 43    | 2       | 18                     | 34     | 17              | ...                    | ...                      | 5        |
| 1877... | 390    | 114   | 7       | 159                    | 22     | 30              | 18                     | 37                       | 3        |
| 1878... | 418    | 197   | 10      | 35                     | 31     | 25              | 24                     | 70                       | 26       |
| 1879... | 518    | 306   | 16      | 130                    | 15     | 28              | 10                     | 13                       | ...      |
| 1880... | 506    | 269   | 12      | 48                     | 5      | 52              | 71                     | 18                       | 31       |
| 1881... | 478    | 376   | 11      | 1                      | ...    | 61              | ...                    | 8                        | 21       |
| 1882... | 465    | 300   | 7       | 47                     | 13     | 3               | 58                     | 20                       | 17       |
| 1883... | 497    | 436   | 1       | 29                     | 1      | 12              | ...                    | 2                        | 16       |
| 1884... | 507    | 359   | 10      | 35                     | 7      | ...             | 64                     | 11                       | 21       |
| 1885... | 478    | 399   | 21      | 14                     | 4      | 13              | 21                     | ...                      | 6        |
| 1886... | 483    | 361   | 6       | 21                     | ...    | 36              | 1                      | 22                       | 36       |
| 1887... | 472    | 355   | 2       | ...                    | ...    | 25              | 42                     | 43                       | 5        |
| 1888... | 883    | 701   | 6       | ...                    | 30     | 83              | ...                    | 9                        | 54       |
| 1889... | 832    | 652   | 35      | ...                    | 21     | 85              | 15                     | 17                       | 7        |
| 1890... | 874    | 591   | 41      | 38                     | 24     | 64              | 12                     | 49                       | 55       |
| 1891... | 901    | 611   | 20      | 20                     | 18     | 134             | 23                     | 74                       | 1        |
| 1892... | 853    | 613   | 78      | 31                     | 13     | 61              | 7                      | 44                       | 6        |
| 1893... | 955    | 855   | 15      | 1                      | ...    | 51              | 6                      | 27                       | ...      |
| 1894... | 765    | 676   | 50      | 1                      | ...    | 35              | ...                    | 3                        | ...      |
| 1895... | 767    | 633   | 58      | 7                      | 1      | 25              | ...                    | 12                       | 31       |
| 1896... | 730    | 419   | 247     | 5                      | ...    | 21              | 13                     | 20                       | 5        |
| 1897... | 791    | 460   | 236     | 32                     | ...    | 24              | ...                    | 39                       | ...      |
| 1898... | 771    | 365   | 332     | 16                     | 7      | 25              | ...                    | 14                       | 12       |
| 1899... | 763    | 338   | 389     | ...                    | 5      | 11              | ...                    | ...                      | 20       |
| 1900... | 752    | 297   | 327     | 14                     | ...    | 33              | 48                     | 9                        | 24       |
| 1901... | 760    | 312   | 388     | 10                     | ...    | 11              | 26                     | ...                      | 13       |
| 1902... | 785    | 296   | 440     | 5                      | ...    | 31              | ...                    | ...                      | 13       |
| 1903... | 825    | 312   | 355     | 12                     | ...    | 70              | 13                     | 15                       | 48       |
| 1904... | 826    | 284   | 285     | 6                      | 2      | 216             | 1                      | 22                       | 10       |
| 1905... | 801    | 325   | 245     | 7                      | ...    | 193             | ...                    | 16                       | 15       |
| 1906... | 894    | 369   | 237     | 9                      | 4      | 237             | ...                    | 5                        | 33       |
| 1907... | 890    | 435   | 250     | 5                      | ...    | 187             | ...                    | ...                      | 13       |
| 1908... | 899    | 417   | 234     | 9                      | 8      | 205             | 12                     | ...                      | 14       |
| 1909... | 898    | 401   | 263     | 7                      | ...    | 209             | ...                    | ...                      | 18       |

Table G.2.—*continued.*

## PERCENTAGE OF ARTICLES RETURNED AS ADULTERATED.

|         | Total. | Milk. | Butter. | Bread<br>and<br>Flour. | Drugs. | Gro-<br>ceries. | Beer<br>and<br>Porter. | Wines<br>and<br>Spirits. | S'ndries |
|---------|--------|-------|---------|------------------------|--------|-----------------|------------------------|--------------------------|----------|
| 1875    | 66.6   | 62.1  | 100.0   | 0.0                    | 0.0    | ...             | 100.0                  | 75.0                     | 66.6     |
| 1876... | 40.3   | 55.8  | 50.0    | 27.8                   | 35.3   | 17.6            | ...                    | ...                      | 60.0     |
| 1877... | 27.4   | 40.3  | 28.6    | 11.3                   | 13.6   | 6.7             | 0.0                    | 97.3                     | 0.0      |
| 1878... | 29.9   | 29.4  | 10.0    | 2.9                    | 51.6   | 4.0             | 4.2                    | 67.1                     | 0.0      |
| 1879... | 12.0   | 13.1  | 25.0    | 5.4                    | 26.6   | 10.7            | 10.0                   | 2.3                      | ...      |
| 1880... | 20.2   | 25.2  | 75.0    | 6.3                    | 0.0    | 17.3            | 11.3                   | 11.1                     | 9.7      |
| 1881... | 16.3   | 18.1  | 9.1     | 0.0                    | ...    | 1.6             | ..                     | 37.5                     | 23.8     |
| 1882 .. | 15.5   | 19.0  | 14.3    | 2.1                    | 53.8   | 0.0             | 1.7                    | 10.0                     | 17.6     |
| 1883... | 6.6    | 6.7   | 0.0     | 3.4                    | 0.0    | 8.3             | ...                    | 50.0                     | 6.3      |
| 1884... | 7.1    | 2.8   | 40.0    | 5.7                    | 57.1   | ...             | 0.0                    | 27.3                     | 61.9     |
| 1885... | 5.2    | 4.8   | 4.8     | 7.1                    | 0.0    | 15.4            | 0.0                    | ...                      | 33.2     |
| 1886... | 3.9    | 1.1   | 50.0    | 0.0                    | ...    | 25.0            | 0.0                    | 0.0                      | 8.3      |
| 1887... | 8.7    | 9.9   | 0.0     | ...                    | ...    | 8.0             | 2.4                    | 7.0                      | 0.0      |
| 1888... | 6.3    | 2.8   | 100.0   | ...                    | 26.6   | 13.3            | ...                    | 0.0                      | 20.4     |
| 1889... | 10.1   | 7.3   | 22.8    | ...                    | 28.5   | 24.7            | 0.0                    | 0.0                      | 14.2     |
| 1890... | 5.1    | 1.9   | 50.0    | 0.0                    | 0.0    | 15.6            | 0.0                    | 30.6                     | 12.7     |
| 1891... | 6.1    | 1.4   | 35.0    | 10.0                   | 0.0    | 22.3            | 0.0                    | 9.4                      | 0.0      |
| 1892... | 7.4    | 4.2   | 29.5    | 0.0                    | 23.1   | 18.0            | 0.0                    | 0.0                      | 0.0      |
| 1893... | 6.6    | 4.0   | 26.7    | 0.0                    | 0.0    | 17.6            | 0.0                    | 59.3                     | 0.0      |
| 1894... | 1.2    | 1.1   | 2.0     | 0.0                    | ...    | 0.0             | ...                    | 0.0                      | ...      |
| 1895... | 2.3    | 1.2   | 15.5    | 0.0                    | 0.0    | 8.0             | ...                    | 0.0                      | 0.0      |
| 1896... | 4.1    | 2.4   | 6.5     | 0.0                    | ...    | 0.0             | 0.0                    | 20.0                     | 0.0      |
| 1897... | 4.3    | 4.3   | 4.2     | 0.0                    | 0.0    | 0.0             | 0.0                    | 7.7                      | 0.0      |
| 1898... | 1.9    | 1.6   | 1.8     | 0.0                    | 2.9    | 0.0             | ...                    | 7.1                      | 0.0      |
| 1899... | 3.9    | 2.4   | 4.4     | ...                    | 100.0  | 0.0             | ...                    | ...                      | 0.0      |
| 1900... | 3.7    | 3.4   | 0.9     | 0.0                    | ...    | 0.0             | 25.0                   | 33.3                     | 4.2      |
| 1901... | 1.7    | 2.9   | 1.0     | 0.0                    | ...    | 0.0             | 0.0                    | ...                      | 0.0      |
| 1902... | 1.1    | 1.7   | 0.9     | 0.0                    | ...    | 0.0             | ...                    | ...                      | 0.0      |
| 1903... | 0.6    | 1.3   | 0.0     | 0.0                    | 0.0    | 0.0             | 0.0                    | 0.0                      | 2.0      |
| 1904... | 3.6    | 3.5   | 2.1     | 0.0                    | 0.0    | 0.9             | 0.0                    | 54.5                     | 0.0      |
| 1905... | 1.9    | 2.5   | 1.6     | 0.0                    | ...    | 0.0             | ...                    | 12.5                     | 6.6      |
| 1906... | 1.7    | 3.5   | 0.0     | 0.0                    | 0.0    | 0.8             | ...                    | 0.0                      | 0.0      |
| 1907... | 0.5    | 0.7   | 0.4     | ...                    | ...    | ...             | ...                    | ...                      | ...      |
| 1908... | 0.9    | 1.7   | 0.4     | ...                    | ...    | ...             | ...                    | ...                      | ...      |
| 1909... | 0.6    | 1.2   | ...     | ...                    | ...    | ...             | ...                    | ...                      | ...      |



TABLE G.3.

NEW HOUSES ERECTED AND HOUSES DEMOLISHED IN 1909.

| Wards.              | Houses<br>erected. | Houses<br>demolished. |
|---------------------|--------------------|-----------------------|
| Kersal .....        | 94                 | —                     |
| Albert Park .....   | —                  | —                     |
| Grosvenor .....     | —                  | —                     |
| St. Matthias' ..... | 2                  | —                     |
| Trinity .....       | —                  | —                     |
| Crescent .....      | 1                  | 26                    |
| Islington .....     | —                  | 8                     |
| Regent .....        | —                  | —                     |
| Ordsall .....       | —                  | 5                     |
| Trafford .....      | 4                  | —                     |
| Charlestown .....   | 140                | 8                     |
| St. Thomas' .....   | 4                  | 5                     |
| St. Paul's .....    | 2                  | —                     |
| Seedley .....       | 152                | —                     |
| Weaste .....        | 24                 | —                     |
| Hope .....          | 131                | —                     |
|                     | <u>554</u>         | <u>52</u>             |

TABLE G.4.

PRIVY MIDDENS AND PAIL CLOSETS CONVERTED TO  
WATER CLOSETS.

| Wards.              | 1909. |
|---------------------|-------|
| Kersal .....        | 82    |
| Albert Park.....    | 49    |
| Grosvenor .....     | 84    |
| St. Matthias' ..... | 95    |
| Trinity.....        | 7     |
| Crescent .....      | 87    |
| Islington .... ..   | 32    |
| Regent.....         | 277   |
| Ordsall .....       | 248   |
| Trafford .....      | 284   |
| Charlestown .....   | 234   |
| St. Thomas' .....   | 38    |
| St. Paul's.....     | 227   |
| Seedley .....       | 102   |
| Weaste .....        | 239   |
| Hope .....          | 139   |
|                     | <hr/> |
|                     | 2224  |

TABLE G.5.

HOUSES PROVIDED WITH THE DIFFERENT FORM OF CONVENIENCE,  
FOR THE YEAR 1909.

|                   | 1909.   |           | 1899.   |           |
|-------------------|---------|-----------|---------|-----------|
|                   | Number. | Per cent. | Number. | Per cent. |
| Water Closet ...  | 40662   | 85'9      | 15200   | 34'0      |
| Midden Privy ...  | 2082    | 4'4       | 20750   | 46'3      |
| Pail Closet ..... | 4587    | 9'7       | 8845    | 19'7      |

TABLE G.6.

CASES HEARD BEFORE MAGISTRATES, 1909.

| Particulars of Offence.  | No. of Cases | Decision of Justices.                                      | Total Fines without Costs. |
|--|--------------|--|----------------------------|
|  |              |  | £ s d.                     |
| Selling to complainant milk not of the nature, substance and quality demanded . . . . .                                | 3            | Fined with costs . . . .                                   | 3 0 0                      |
| Permitting dense smoke to be emitted from chimneys of works . . . . .  | 5            | Fined with costs . . . .                                   | 4 0 0                      |
| Neglecting to abate nuisance caused by chimney sending forth black smoke . . . . .                                     | 11           | { 10 fined with costs<br>1 adjourned <i>sine die</i>       | 13 0 0                     |
| Master of canal boat making default in complying with regulations as to cleanliness of cabin. . . . .                  | 2            | Fined with costs . . . .                                   | 0 15 0                     |
| Master of canal boat making default in complying with regulation as to overcrowding                                    | 2            | Fined with costs . . . .                                   | 1 1 6                      |
| Master of canal boat making default in complying with the regulations as to non-separation of sexes . . . . .          | 2            | Fined with costs . . . .                                   | 1 1 6                      |
| Neglecting to carry into effect notices from the Urban Sanitary Authority . . . . .                                    | 5            | { 1 withdrawn on payment of costs.<br>4 fined with costs } | 11 0 0                     |
| Occupier of house suffering interior to be in such a condition as to be prejudicial to health of the inmates . . . . . | 2            | Fined with costs . . . .                                   | 0 7 6                      |
| Keeper of sublet house suffering the same to be overcrowded  | 14           | Fined with costs . . . .                                   | 2 0 0                      |
| Carried forward . . . . .  | 46           |  | £ 36 5 6                   |



TABLE G.6.—Continued.

CASES HEARD BEFORE MAGISTRATES, 1909.—Continued.

| Particulars of Offence.   | No. of Cases | Decision of Justices.  | Total Fines without Costs. |    |    |
|---|--------------|--|----------------------------|----|----|
|   |              |  | £                          | s. | d. |
| Brought forward.....  | 46           |  | 36                         | 5  | 6  |
| Unregistered person subletting }<br>house in lodgings ..... }   | 1            | Fined with costs....   | 0                          | 5  | 0  |
| A woman not certified using the }<br>name midwife ..... }   | 2            | Withdrawn on pay- }<br>ment of costs .. }<br>1 fined ..... }       | 1                          | 1  | 0  |
| Keeper of common lodging house }<br>making default in complying }<br>with the bye-laws as to clean- }<br>liness ..... }                           | 4            | Fined with costs....   | 1                          | 7  | 6  |
| For not notifying a case of }<br>parasitic mange ..... }  | 1            | Fined with costs....   | 0                          | 10 | 0  |
| Barbers' and Hairdressers' shop }<br>being open after hours, con- }<br>trary to the Closing Order }<br>made under the Shop Hours }<br>Act ..... } | 4            | { 2 Withdrawn on }<br>payment of costs }<br>{ 2 Fined with costs } | 0                          | 6  | 0  |
| Offering a declaration, under the }<br>North of England and Scot- }<br>land Order of 1907, knowing }<br>the same to be falsely made }             | 2            | Dismissed .....  |                            |    |    |
| A person suffering from infectious }<br>disease unlawfully exposing }<br>himself ..... }  | 1            | Fined with costs....   | 1                          | 0  | 0  |
| TOTAL .....   | 61           |  | 40                         | 15 | 0  |

TABLE G.7.

YEAR 1909.

METEOROLOGY, AND REGISTERED DEATHS FROM ALL CAUSES, AND FROM CERTAIN PREVALENT DISEASES, IN EACH FORTNIGHT OF THE YEAR.

| Fortnight ending. | Temperature of the Air           |                                 |                      | Temperature—<br>4-feet below ground | Mean Humidity.<br>Complete Saturation<br>=100. | Rainfall in Inches. | Deaths Registered from |                            |            |                              |           |
|-------------------|----------------------------------|---------------------------------|----------------------|-------------------------------------|--|---------------------|------------------------|----------------------------|------------|------------------------------|-----------|
|                   | Highest during<br>the Fortnight. | Lowest during<br>the Fortnight. | Mean<br>Temperature. |                                     |  |                     | All Causes.            | Seven Zymotic<br>Diseases. | Diarrhoea. | Bronchitis and<br>Pneumonia. | Phthisis. |
| 1909              | °                                | °                               | °                    | °                                   |  |                     |                        |                            |            |                              |           |
| Jan. 16....       | 49·4                             | 32·2                            | 40·7                 | 43·7                                | 89   | 1·260               | 174                    | 19                         | 1          | 36                           | 13        |
| 30....            | 46·7                             | 23·7                            | 34·0                 | 42·5                                | 90   | ·052                | 189                    | 16                         | 1          | 61                           | 15        |
| Feb. 13....       | 47·8                             | 23·8                            | 38·6                 | 41·2                                | 89   | 1·025               | 207                    | 23                         | 2          | 67                           | 15        |
| 27....            | 52·2                             | 29·2                            | 36·4                 | 40·9                                | 88   | ·075                | 186                    | 13                         | 1          | 63                           | 13        |
| Mar. 13....       | 42·5                             | 23·0                            | 33·1                 | 39·7                                | 92   | ·570                | 241                    | 20                         | 2          | 81                           | 19        |
| 27....            | 55·9                             | 29·0                            | 40·1                 | 39·8                                | 89   | 1·007               | 196                    | 17                         | 1          | 57                           | 19        |
| April 10....      | 68·6                             | 32·7                            | 44·2                 | 42·3                                | 76   | ·965                | 182                    | 19                         | 1          | 46                           | 9         |
| 24....            | 66·3                             | 36·5                            | 49·4                 | 44·7                                | 68   | 2·244               | 190                    | 24                         | 1          | 47                           | 22        |
| May 8....         | 68·4                             | 33·5                            | 49·2                 | 47·0                                | 61   | ·484                | 170                    | 31                         | 3          | 44                           | 12        |
| 22....            | 81·1                             | 34·0                            | 49·8                 | 48·8                                | 64   | ·112                | 183                    | 25                         | 2          | 43                           | 12        |
| June 5....        | 70·5                             | 41·5                            | 53·4                 | 51·2                                | 76   | 1·245               | 162                    | 33                         | 1          | 38                           | 14        |
| 19....            | 67·9                             | 41·0                            | 52·1                 | 51·9                                | 69   | ·208                | 171                    | 41                         | 2          | 37                           | 15        |
| July 3....        | 74·9                             | 42·5                            | 54·8                 | 52·8                                | 74   | 1·680               | 158                    | 30                         | 3          | 32                           | 16        |
| 17....            | 69·0                             | 48·5                            | 57·5                 | 54·4                                | 74   | 1·794               | 136                    | 28                         | 2          | 19                           | 10        |
| 31....            | 68·1                             | 48·8                            | 57·2                 | 55·7                                | 74   | 2·467               | 118                    | 18                         | 5          | 21                           | 12        |
| Aug. 14....       | 80·2                             | 46·8                            | 60·6                 | 56·5                                | 75   | ·505                | 128                    | 27                         | 4          | 22                           | 4         |
| 28....            | 81·6                             | 46·8                            | 58·5                 | 58·5                                | 78   | 2·585               | 154                    | 31                         | 17         | 21                           | 24        |
| Sept. 11....      | 65·8                             | 41·0                            | 53·2                 | 56·9                                | 75   | 1·430               | 148                    | 42                         | 25         | 21                           | 9         |
| 25....            | 67·5                             | 41·5                            | 53·9                 | 55·3                                | 80   | ·295                | 134                    | 16                         | 9          | 25                           | 12        |
| Oct. 9....        | 66·4                             | 41·0                            | 54·5                 | 54·9                                | 82   | 2·016               | 165                    | 25                         | 13         | 34                           | 16        |
| 23....            | 65·3                             | 43·6                            | 53·8                 | 54·5                                | 84   | 3·153               | 153                    | 25                         | 11         | 30                           | 5         |
| Nov. 6....        | 54·9                             | 30·0                            | 43·8                 | 51·5                                | 86   | ·532                | 135                    | 11                         | 2          | 34                           | 14        |
| 20....            | 52·1                             | 30·0                            | 43·5                 | 48·8                                | 89   | ·270                | 150                    | 13                         | 5          | 44                           | 10        |
| Dec. 4....        | 51·2                             | 29·0                            | 39·6                 | 45·0                                | 94   | 2·950               | 181                    | 10                         | 4          | 58                           | 15        |
| 18....            | 51·9                             | 23·0                            | 39·0                 | 43·7                                | 91   | 1·560               | 175                    | 12                         | ..         | 51                           | 16        |
| 1910              |                                  |                                 |                      |                                     |  |                     |                        |                            |            |                              |           |
| Jan. 1....        | 54·1                             | 20·1                            | 40·2                 | 42·6                                | 93   | 2·105               | 186                    | 16                         | ..         | 44                           | 16        |

**TABLE G.8.**  
**METEOROLOGY.**

TEMPERATURES IN QUARTERS AND YEARS.

| TEMPERATURE IN SHADE. |       |       |       |  |   |       |       |       |  |
|-----------------------|-------|-------|-------|--|---|-------|-------|-------|--|
| MEAN MAXIMUM.         |       |       |       |  | MEAN MINIMUM.                             |       |       |       |  |
|                       | 1907. | 1908. | 1909. |  |   | 1907. | 1908. | 1909. |  |
| 1st Quarter...        | 52.5  | 49.8  | 49.5  |  | 1st Quarter...                            | 27.5  | 29.3  | 27.3  |  |
| 2nd „ ...             | 65.6  | 66.0  | 68.3  |  | 2nd „ ...                                 | 38.7  | 39.0  | 38.7  |  |
| 3rd „ ...             | 71.0  | 71.2  | 70.1  |  | 3rd „ ...                                 | 46.0  | 46.2  | 47.1  |  |
| 4th „ ...             | 56.5  | 59.5  | 53.7  |  | 4th „ ...                                 | 33.7  | 35.7  | 32.4  |  |
|                       |       |       |       |  |   |       |       |       |  |
| Year...               | 61.4  | 61.7  | 60.4  |  | Year...                                   | 36.5  | 37.5  | 36.4  |  |
| MEAN TEMPERATURE.     |       |       |       |  | MEAN TEMPERATURE—<br>4 FEET BELOW GROUND. |       |       |       |  |
|                       | 1907. | 1908. | 1909. |  |   | 1907. | 1908. | 1909. |  |
| 1st Quarter...        | 39.3  | 39.1  | 37.7  |  | 1st Quarter...                            | 41.4  | 41.8  | 41.4  |  |
| 2nd „ ...             | 49.4  | 50.4  | 51.0  |  | 2nd „ ...                                 | 48.2  | 48.0  | 48.9  |  |
| 3rd „ ...             | 56.9  | 57.8  | 56.6  |  | 3rd „ ...                                 | 55.5  | 57.4  | 56.1  |  |
| 4th „ ...             | 45.3  | 47.1  | 43.5  |  | 4th „ ...                                 | 50.2  | 51.2  | 48.2  |  |
|                       |       |       |       |  |   |       |       |       |  |
| Year...               | 47.7  | 48.6  | 47.2  |  | Year...                                   | 50.2  | 49.6  | 48.7  |  |
| MEAN HUMIDITY.        |       |       |       |  | AMOUNT OF RAINFALL.                       |       |       |       |  |
|                       | 1907. | 1908. | 1909. |  |   | 1907. | 1908. | 1909. |  |
| 1st Quarter...        | 92    | 90    | 89    |  | 1st Quarter...                            | 6.80  | 7.33  | 4.95  |  |
| 2nd „ ...             | 86    | 74    | 69    |  | 2nd „ ...                                 | 10.48 | 6.28  | 5.97  |  |
| 3rd „ ...             | 77    | 72    | 76    |  | 3rd „ ...                                 | 8.03  | 9.93  | 9.91  |  |
| 4th „ ...             | 87    | 87    | 89    |  | 4th „ ...                                 | 8.21  | 5.89  | 11.75 |  |
|                       |       |       |       |  |   |       |       |       |  |
| Year...               | 86    | 81    | 81    |  | Year...                                   | 33.52 | 29.43 | 32.58 |  |





TABLE G.9.—*Continued.*

## Register of Work Done—(Continued).

|  |   |                                     |      |
|--|---|-------------------------------------|------|
| Limewashed                                     | { | Workshops .....                     | 46   |
|  |   | Workshops (Domestic) .....          | 9    |
|  |   | Outworkers' premises .....          | 2    |
|  |   | Laundries .....                     | 1    |
|  |   | Shippens .....                      | 6    |
| Closure of                                     | { | Urinals .....                       | 30   |
|  |   | Houses unfit for habitation .....   | 87   |
|  |   | Cellars unfit for habitation .....  | ..   |
|  |   | Lodging-houses .....                | ..   |
|  |   | "    "    Sub-let .....             | 55   |
| Newly<br>registered                            | { | Slaughter-houses .....              | ..   |
|  |   | Workshops .....                     | 83   |
|  |   | "    (Domestic) .....               | 26   |
|  |   | Dairies and Milkshops.....          | 89   |
|  |   | Bakehouses .....                    | 62   |
|  |   | Laundries .....                     | 4    |
|  |   | Second-hand Goods Stores .....      | 66   |
| Accumulations<br>Removed                       | { | Offensive Trades .....              | ..   |
|  |   | Manure and Refuse .....             | 109  |
| Smoke<br>Nuisance                              | { | Stagnant Water .....                | 16   |
|  |   | Observations taken .....            | 4304 |
|  |   | Notices served.....                 | 36   |
| Passages and<br>Yards                          | { | Cautionary Notices served .....     | 594  |
|  |   | Flagged .....                       | ..   |
|  |   | Repaired .....                      | 1264 |
| Infected Bed:<br>and Clothing                  | { | Drained.....                        | 20   |
|  |   | Stoved .....                        | 2176 |
| Food .....                                     | { | Destroyed .....                     | 6    |
|  |   | Samples purchased for analysis .... | 898  |
| Bad Meat .....                                 |   | Seizures made .....                 | 811  |
| Animals removed from improper situations.....  |   |                                     | 25   |
| Overcrowding of dwellings abated .....         |   |                                     | 48   |
| Houses repaired, by owners, after notice ..... |   |                                     | 1283 |
| "    cleansed .....                            |   |                                     | 90   |
| Canal Boats painted .....                      |   |                                     | 15   |
| "    defective .....                           |   |                                     | 54   |
| "    repaired .....                            |   |                                     | 22   |

SECTION VII.

SPECIAL INVESTIGATION  
RESPECTING THE RELATION OF THE  
INDUSTRIAL EMPLOYMENT OF MARRIED  
WOMEN TO INFANT MORTALITY,  
IN SALFORD.





## SECTION VII.

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SPECIAL INVESTIGATION  
RESPECTING THE RELATION OF THE  
INDUSTRIAL EMPLOYMENT OF MARRIED  
WOMEN TO INFANT MORTALITY,  
IN SALFORD.

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This Inquiry was taken upon a suggestion from the Home Office, and was concerned in the question, of the effect of the industrial employment of married women, on the Infantile Death Rate.

The Health Committee, at the close of 1907, appointed a special Lady Inspector, to conduct an Inquiry in this Borough.

From information already in our possession, we had good reason to believe that comparatively few married women were employed industrially in Salford, and one lady could not possibly undertake an inquiry in the whole of the Borough.

The first difficulty arose in deciding upon the Area to which the inquiry should be restricted. The Charles-town district, which was decided upon, is the one where the greatest number of cotton mills in the Borough are situated, and is a district which has a high Infantile Mortality.

854 children were born in this district during 1908, and these were regularly visited until they (*a*) reached the age of 12 months, (*b*) died, (*c*) removed out of the district.

Of the 854 mothers, 142 or 16·6 per cent. were employed industrially, 121 or 14·2 per cent. being employed in factories. Of the 142 mothers industrially employed, 21 or 14·95 per cent. gave as the reason for their employment, that it was the sole or main source of their income ; 112 or 78·7 per cent. that they worked to supplement a small income, and 9 or 6·35 per cent. that they preferred industrial work to remaining at home to attend to household duties.

Of the 142, 109 earned 15s. per week or less, and 24 over 15s. per week.

Inquiries were made as to the average total weekly income of the family, but too much reliance should not be placed upon the figures given, as they are the outcome of the uncorrected statements of the women themselves.

Answers were obtained to the query in 799 cases, and of these, 256 or 32·05 per cent. had an average income under 25s. per week, 443 or 55·45 per cent. had an average income over 25s. per week, 7 or 0·9 per cent. had an average income of 10s. per week, and 93 or 11·6 per cent. had an average income varying from 10s. to 20s. per week.

In the vast majority of cases, 629 or 75·7 per cent. the house occupied contained four rooms, and the average number of persons per room was 2 in 515 instances or 62·4 per cent. of the whole. In only four instances did the number of persons per room exceed four.

The Infant Mortality, where the mother was industrially employed, was 169·6 per 1,000 births, and this does not compare unfavourably with the Mortality among the infants of the mothers who were not industrially employed, which was 155·9 per 1,000 births.



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Particulars were obtained as to the feeding of the infants, and in 574 cases, or 80·28 per cent., out of the total of 715, respecting which these particulars were obtained, the infant was fed from the breast alone for the first six months of life.

Of the remainder, 31 were fed from the breast for one month, 23 for two months, 14 for three months, and 26 from four to six months, being fed wholly or partially on other foods for the remainder of the six months. 38 had no breast feeding, and nine were fed partially from the breast and partially on other foods for the whole period of six months.

Enquiry as to Industrial Employment of Married Women  
and Infant Mortality (1908).

SUMMARY.

I.—CASES UNDER ENQUIRY.

|   |   | In case of mothers industrially employed. |                           |            |            | In case of<br>mothers<br><i>not</i> in-<br>dustrially<br>employed. |      |
|---|---|---|---------------------------|------------|------------|--|------|
|   |   | at home.                                  | in factory or<br>workshop |            | elsewhere. |  |      |
|   |   |   | in lead.                  | otherwise. |            |  |      |
| Children born alive, and surviving first year .     |   | 5   | ..                        | 100        | 11         | 599  |      |
| ,, ,, ,, and dying in first year ..                 |   | 1   | ..                        | 19         | 4          | 111  |      |
| Miscarriages, Still Births, Premature Births .      |   | 1   | ..                        | 4          | 1          | 22   |      |
| Age of mother .                                     | { < 25 years .....                            | ..  | ..                        | 47         | 4          | 147  |      |
|   | { < 35 years .....                            | 5   | ..                        | 56         | 7          | 419  |      |
|   | { over 35 years .....                         | 1   | ..                        | 18         | 4          | 146  |      |
| Previous<br>confinements                            | { Miscarriages, Still Births ..               | 2   | ..                        | 28         | 10         | 294  |      |
|   | { Child'n {                                   | born alive ...                            | 31                        | ..         | 220        | 56   | 2202 |
|   |   | now living ....                           | 19                        | ..         | 152        | 34   | 1554 |
|   |   | died in first year                        | 8                         | ..         | 32         | 14   | 67   |
|   | { No previous confinement                     | ..  | ..                        | 50         | 4          | 125  |      |
| Status of mother                                    | { living with husband ....                    | 6   | ..                        | 110        | 11         | 707  |      |
|   | { living apart .....                          | ..  | ..                        | 1          | ..         | 1  |      |
|   | { widowed .....                               | ..  | ..                        | 2          | 1          | ..   |      |
|   | { single .....                                | ..  | ..                        | 8          | 3          | 4  |      |
| Reason for<br>industrial<br>employment<br>of mother | { A—as sole or main source of<br>income ..... | 1   | ..                        | 16         | 4          | ..   |      |
|   | { B—to supplement small income                | 5   | ..                        | 98         | 9          | ..   |      |
|   | { C—preference for industrial<br>work .....   | ..  | ..                        | 7          | 2          | ..   |      |
| Households (no. of) .....                           |   | 6   | ..                        | 138        | 16         | 714  |      |

I.—CASES UNDER ENQUIRY, *continued*.

|  |  |               | In case of mothers industrially employed. |                           |            |            | In case of<br>mothers<br><i>not</i> in-<br>dustrially<br>employed. |
|--|--|---------------|---|---------------------------|------------|------------|--|
|  |  |               | at home.                                  | in factory or<br>workshop |            | elsewhere. |  |
|  |  |               |   | in lead.                  | otherwise. |            |  |
| Average                                    | No. of<br>rooms per<br>household                     | 1 .....       | ..  | ..                        | 3          | ..         | 4  |
|  |  | 2 .....       | ..  | ..                        | 11         | 2          | 23   |
|  |  | 3 .....       | ..  | ..                        | 2          | ..         | 8  |
|  |  | 4 .....       | 5   | ..                        | 88         | 9          | 527  |
|  |  | 5 .....       | 1   | ..                        | 7          | ..         | 59   |
|  |  | 6 .....       | ..  | ..                        | 3          | 1          | 61   |
|  |  | 7 .....       | ..  | ..                        | ..         | ..         | 12   |
|  |  | 8 and over .. | ..  | ..                        | ..         | ..         | 5  |
|  | No. of persons<br>per room<br>(including<br>lodgers) | Not stated .. | ..  | ..                        | 7          | 3          | 13   |
|  |  | < 1 .....     | ..  | ..                        | 32         | 1          | 165  |
|  |  | < 2 .....     | 5   | ..                        | 63         | 8          | 439  |
|  |  | < 3 .....     | 1   | ..                        | 12         | 3          | 79   |
|  |  | < 4 .....     | ..  | ..                        | 2          | ..         | 11   |
| 4 and over ..                              |  | ..            | ..  | 2                         | ..         | 2          |  |
| Rental                                     | not stated ..  | ..            | ..  | 10                        | 3          | 16         |  |
|  | up to and<br>including 2/6                           | ..            | ..  | 8                         | ..         | 8          |  |
|  | < 5/- .....  | 6             | ..  | 66                        | 12         | 365        |  |
|  | < 7/6 .....  | ..            | ..  | 29                        | ..         | 255        |  |
|  | < 10/- .....   | ..            | ..  | 1                         | ..         | 32         |  |
|  | over 10/- ..   | ..            | ..  | ..                        | ..         | 9          |  |
| Average<br>weekly<br>earnings<br>of mother | Before<br>confinement                                | not stated .. | ..  | ..                        | 17         | 3          | 43   |
|  |  | < 5/- .....   | 1   | ..                        | ..         | 2          | ..   |
|  |  | < 10/- .....  | 3   | ..                        | 16         | 7          | ..   |
|  |  | < 15/- .....  | ..  | ..                        | 75         | 5          | ..   |
|  | After<br>confinement                                 | over 15/- ..  | 1   | ..                        | 22         | 1          | ..   |
|  |  | < 5/- .....   | 1   | ..                        | 1          | ..         | ..   |
|  |  | < 10/- .....  | 3   | ..                        | 12         | 4          | ..   |
|  |  | < 15/- .....  | ..  | ..                        | 29         | 1          | ..   |
| Average total weekly income<br>of family   | over 15/- ..   | 1             | ..  | 6                         | 2          | ..         |  |
|  | < 10/- .....   | ..            | ..  | 4                         | 1          | 2          |  |
|  | < 20/- .....   | ..            | ..  | 28                        | 5          | 60         |  |
|  | < 25/- .....   | 4             | ..  | 32                        | 3          | 217        |  |
|  | < 30/- .....   | 1             | ..  | 17                        | 3          | 164        |  |
|  | < 35/- .....   | 1             | ..  | 25                        | 2          | 87         |  |
|  | over 35/- ..   | ..            | ..  | 12                        | 1          | 130        |  |
|  | Not stated ..  | ..            | ..  | 3                         | ..         | 52         |  |
| Businesses,<br>&c.                         |  |               |   |                           |            |            |  |



II.—EMPLOYMENT OF MOTHER IN RELATION TO HEALTH OF CHILD.  
A.—Children surviving first year.

|   |  | In case of mothers industrially employed. |                           |            |            | In case of<br>mothers<br>not in-<br>dustrially<br>employed. |    |
|---|--|---|---------------------------|------------|------------|---|----|
|   |  | at home.                                  | in factory or<br>workshop |            | elsewhere. |   |    |
|   |  |   | in lead.                  | otherwise. |            |   |    |
| Industrial work<br>discontinued before<br>confinement   | < 1 week .....   | 2   | ..                        | 5          | 3          | ..  |    |
|   | < 2 weeks .....  | 1   | ..                        | 5          | 3          | ..  |    |
|   | < 3 weeks .....  | ..  | ..                        | 3          | ..         | ..  |    |
|   | < 4 weeks.....   | ..  | ..                        | 3          | ..         | ..  |    |
|   | < 8 weeks .....  | ..  | ..                        | 8          | 2          | ..  |    |
|   | < 12 weeks .....   | ..  | ..                        | 10         | 1          | ..  |    |
|   | < 26 weeks .....   | 1   | ..                        | 48         | 2          | ..  |    |
|   | over 26 weeks .....  | ..  | ..                        | 16         | ..         | ..  |    |
| Industrial work<br>resumed after<br>confinement, within | 4 weeks .....  | 3   | ..                        | 4          | 1          | ..  |    |
|   | 6 weeks .....  | 1   | ..                        | 11         | 2          | ..  |    |
|   | 8 weeks .....  | ..  | ..                        | 6          | 2          | ..  |    |
|   | 12 weeks .....   | ..  | ..                        | 5          | ..         | ..  |    |
|   | 52 weeks .....   | 1   | ..                        | 19         | 1          | ..  |    |
|   | not within year .....  | ..  | ..                        | 55         | 5          | ..  |    |
| Nursed (at last visit)                                  | { at home {<br>by mother..<br>by other<br>person<br>put out .....                            | 5   | ..                        | 60         | 6          | 560   |    |
|   |  | ..  | ..                        | 22         | 3          | ..  |    |
|   |  | ..  | ..                        | 13         | 1          | 1   |    |
| Removals .....  |  | ..  | ..                        | 5          | 1          | 38  |    |
| Feeding   | { breast alone {<br><br><br><br><br>breast partly {<br><br><br><br>artificial entirely ..... | < 1 month ....                            | ..                        | ..         | 7          | ..  | 24 |
|   |  | < 2 months ....                           | 1                         | ..         | 11         | ..  | 11 |
|   |  | < 3 months ....                           | ..                        | ..         | 4          | ..  | 10 |
|   |  | < 6 months ....                           | ..                        | ..         | 4          | 1   | 21 |
|   | < 1 month ....   | ..  | ..                        | ..         | ..         | ..  |    |
|   | < 2 months ....  | ..  | ..                        | 1          | ..         | 1   |    |
|   | < 3 months ....  | ..  | ..                        | ..         | ..         | ..  |    |
|   | < 6 months ....  | ..  | ..                        | 4          | ..         | 3   |    |
|   | artificial entirely .....  |   | 1                         | ..         | 5          | 2   | 30 |

II.—EMPLOYMENT OF MOTHER IN RELATION TO HEALTH OF CHILD.

B.—Children dying in first year.

|   |              | In case of mothers industrially employed.       |                           |                     |                      | In case of mothers<br>not in-<br>dustrially<br>employed. |    |    |
|---|--------------|---|---------------------------|---------------------|----------------------|--|----|----|
|   |              | at home.  | in factory or<br>workshop |                     | elsewhere.           |  |    |    |
|   |              |   | in lead.                  | otherwise.          |                      |  |    |    |
| Industrial work<br>discontinued before<br>confinement   | {            | < 1 week .....                                  | ..                        | ..                  | 2                    | ..   |    |    |
|   |              | < 2 weeks .....                                 | ..                        | 1                   | ..                   | ..   |    |    |
|   |              | < 3 weeks .....                                 | ..                        | ..                  | ..                   | ..   |    |    |
|   |              | < 4 weeks .....                                 | ..                        | ..                  | ..                   | ..   |    |    |
|   |              | < 8 weeks .....                                 | ..                        | 3                   | ..                   | ..   |    |    |
|   |              | < 12 weeks .....                                | 1                         | 8                   | 2                    | ..   |    |    |
|   |              | < 26 weeks .....                                | ..                        | 4                   | ..                   | ..   |    |    |
|   |              | over 26 weeks .....                             | ..                        | 3                   | ..                   | ..   |    |    |
| Industrial work<br>resumed after<br>confinement, within | {            | 4 weeks .....                                   | ..                        | ..                  | ..                   | ..   |    |    |
|   |              | 6 weeks .....                                   | ..                        | 2                   | ..                   | ..   |    |    |
|   |              | 8 weeks .....                                   | ..                        | 1                   | ..                   | ..   |    |    |
|   |              | 12 weeks .....                                  | ..                        | ..                  | 1                    | ..   |    |    |
|   |              | 52 weeks .....                                  | ..                        | ..                  | ..                   | ..   |    |    |
|   |              | not within year .....                           | 1                         | 16                  | 3                    | ..   |    |    |
| Nursed (at last visit)                                  | {            | at home { by mother .                           | 1                         | ..                  | 15                   | 4  | 90 |    |
|   |              | by other<br>person                              | ..                        | ..                  | 2                    | ..   | .. |    |
|   |              | put out .....                                   | ..                        | ..                  | ..                   | ..   | 3  |    |
| Feeding   | {            | breast alone {                                  | < 1 month ....            | ..                  | ..                   | 5  | 2  | 26 |
|   |              |   | < 2 months ....           | ..                  | ..                   | 2  | .. | 16 |
|   |              |   | < 3 months ....           | ..                  | ..                   | ..   | 1  | 8  |
|   |              |   | < 6 months ....           | 1                   | ..                   | 2  | .. | 10 |
|   | {            | breast partly {                                 | < 1 month ....            | ..                  | ..                   | ..   | .. | 2  |
|   |              |   | < 2 months ....           | ..                  | ..                   | ..   | .. | .. |
|   |              |   | < 3 months ....           | ..                  | ..                   | ..   | .. | .. |
|   |              |   | < 6 months ....           | ..                  | ..                   | 1  | 1  | 3  |
|   |              |   | artificial entirely ..... | ..                  | ..                   | 1  | .. | 14 |
|   | Age at death | {   | < 1 month .....           | ..                  | ..                   | 5  | 1  | 35 |
| < 2 months .....  |              |   | ..                        | ..                  | 1                    | ..   | 17 |    |
| < 3 months .....  |              |   | ..                        | ..                  | 1                    | 1  | 9  |    |
| < 6 months .....  |              |   | 1                         | ..                  | 5                    | ..   | 20 |    |
| < 12 months .....                                       |              |   | ..                        | ..                  | 7                    | 2  | 30 |    |
| Cause of death  | {            | infectious diseases .....                       | 1                         | ..                  | 3                    | ..   | 7  |    |
|   |              | wasting diseases (including<br>premature birth) | ..                        | ..                  | 8                    | 1  | 33 |    |
|   |              | other diseases .....                            | ..                        | ..                  | 8                    | 3  | 71 |    |
| Mean age at death .....                                 |              | 5 mos.  | ..                        | 3 $\frac{3}{4}$ mos | 2 $\frac{3}{4}$ mos. | 3 $\frac{1}{2}$ mos.                                     |    |    |

II.—EMPLOYMENT OF MOTHER IN RELATION TO HEALTH OF CHILD.

C.—Miscarriages, Still Births.

|   |                    | In case of mothers industrially employed. |                           |            |            | In case of<br>mothers<br><i>not</i> in-<br>dustrially<br>employed. |
|---|--------------------|---|---------------------------|------------|------------|--|
|   |                    | at home.                                  | in factory or<br>workshop |            | elsewhere. |  |
|   |                    |   | in lead.                  | otherwise. |            |  |
| Industrial work<br>discontinued before<br>confinement   | < 1 week .....     | ..  | ..                        | ..         | ..         | ..   |
|   | < 2 weeks .....    | ..  | ..                        | ..         | ..         | ..   |
|   | < 3 weeks .....    | ..  | ..                        | ..         | ..         | ..   |
|   | < 4 weeks .....    | ..  | ..                        | 2          | ..         | ..   |
|   | < 8 weeks .....    | ..  | ..                        | ..         | ..         | ..   |
|   | <12 weeks .....    | ..  | ..                        | ..         | ..         | ..   |
|   | <26 weeks .....    | ..  | ..                        | ..         | ..         | ..   |
|   | over 26 weeks .... | ..  | ..                        | ..         | ..         | ..   |
| Industrial work<br>resumed after<br>confinement ,within | 4 weeks .....      | ..  | ..                        | ..         | ..         | ..   |
|   | 6 weeks .....      | ..  | ..                        | ..         | ..         | ..   |
|   | 8 weeks .....      | ..  | ..                        | ..         | ..         | ..   |
|   | 12 weeks .....     | ..  | ..                        | ..         | ..         | ..   |
|   | 52 weeks .....     | ..  | ..                        | ..         | ..         | ..   |
|   | not within year .. | ..  | ..                        | 2          | ..         | ..   |
| Miscarriages and Still Births .....                     |                    | ..  | ..                        | ..         | ..         | 2  |





